SHARP SERVICE MANUAL

CODE: 00ZARM277/A1E



AR-M237/M277

DIGITAL MULTIFUNCTIONAL SYSTEM

AR-M236/M276 MODEL AR-M237/M277

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Parts marked with " \triangle " are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

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[1] NOTE FOR SERVICING

This Service Manual uses some photographs to assure safe operation. This Service Manual uses some photographs to assure safe operation. Please understand the meanings of photographs before servicing.

MARNING: If this WARNING should be ignored, a serious danger

to life or a serious injury would be resulted.

⚠ CAUTION: If this CAUTION should be ignored, an injury or a

damage to properties would be resulted.

1. Warning for servicing

 Be sure to connect the power cord only to a power outlet that meets the specified voltage and current requirements.

Avoid complex wiring, which may lead to a fire or an electric shock. It may cause a fire or an electric shock.

If there is any abnormality such as a smoke or an abnormal smell, interrupt the job and disconnect the power plug.

It may cause a fire or an electric shock.

 Be sure to connect the grounding wire. If an electric leakage occurs without grounding, a fire or an electric shock may be the result.

To protect the machine and the power unit from lightening, grounding must be made.

4) When connecting the grounding wire, never connect it to the following points.

It may cause an explosion, a fire or an electric shock.

- · Gas tube
- · Lightning conductor
- A water pipe or a water faucet, which is not recognized as a grounding object by the authorities.
- · Grounding wire for telephone line
- 5) Do not damage, brake, or work the power cord.

Do not put heavy objects on the power cable. Do not bend it forcibly or do not pull it extremely.

It may cause a fire or an electric shock.

6) Keep the power cable away from a heat source.

Do not insert the power plug with dust on it into a power outlet.

It may cause a fire or an electric shock.

7) Do not put a receptacle with water in it or a metal piece which may drop inside the machine.

It may cause a fire or an electric shock.

8) With wet or oily hands, do not touch the power plug, do not insert the telephone line jack, do not operate the machine, or do not perform servicing.

It may cause an electric shock.

2. Precautions for servicing

 When servicing, disconnect the power plug, the printer cable, the network cable, and the telephone line from the machine, except when performing the communication test, etc.

It may cause an injury or an electric shock.

2) There is a high temperature area inside the machine. Use an extreme care when servicing.

It may cause a burn.

- 3) There is a high voltage section inside the machine which may cause an electric shock . Be careful when servicing.
- 4) Do not disassemble the laser unit. Do not insert a reflective material such as a screwdriver in the laser beam path.
 - It may damage eyes by reflection of laser beams.
- 5) When servicing with the machine operating, be careful not to squeeze you hands by the chain, the belt, the gear, and other driving sections.

- 6) Do not leave the machine with the cabinet disassembled.
 - Do not allow any person other than a serviceman to touch inside the machine. It may cause an electric shock, a burn, or an injury.
- When servicing, do not breathe toner, developer, and ink excessively. Do not get them in the eyes.
 - If toner, developer, or ink enters you eyes, wash it away with water immediately, and consult a doctor if necessary.
- 8) The machine has got sharp edges inside. Be careful not to damage fingers when servicing.
- Do not throw toner or a toner cartridge in a fire. Otherwise, toner may pop and burn you.
- 10) When replacing the lithium battery of the PWB, use a specified one

If a battery of different specification is used, it may be broken, causing breakdown or malfunction of the machine.

11) When carrying a unit with PWB or electronic parts installed to it, be sure to put it in an anti-static-electricity bag.

It may cause a breakdown or malfunctions.

3. Note for installing site

Do not install the machine at the following sites.

 Place of high temperature, high humidity, low temperature, low humidity, place under an extreme change in temperature and humidity.

Paper may get damp and form dews inside the machine, causing paper jam or copy dirt.

For operating and storing conditions, refer to the specifications described later.

2) Place of much vibrations

It may cause a breakdown.

3) Poorly ventilated place

An electro-static type copier will produce ozone inside it.

The quantity of ozone produced is designed to a low level so as not to affect human bodies. However, continuous use of such a machine may produce a smell of ozone. Install the machine in a well ventilated place, and ventilate occasionally.

4) Place of direct sunlight.

Plastic parts and ink may be deformed, discolored, or may undergo qualitative change.

It may cause a breakdown or copy dirt.

5) Place which is full of organic gases such as ammonium

The organic photoconductor (OPC) drum used in the machine may undergo qualitative change due to organic gases such as ammonium

Installation of this machine near a diazo-type copier may result in dirt copy.

6) Place of much dust

When dusts enter the machine, it may cause a breakdown or copy dirt.

7) Place near a wall

Some machine require intake and exhaust of air.

If intake and exhaust of air are not properly performed, copy dirt or a breakdown may be resulted.

8) Unstable or slant surface

If the machine drops or fall down, it may cause an injury or a break-down.

If there are optional paper desk and the copier desk specified, it is recommendable to use them.

When using the optional desk, be sure to fix the adjuster and lock the casters.

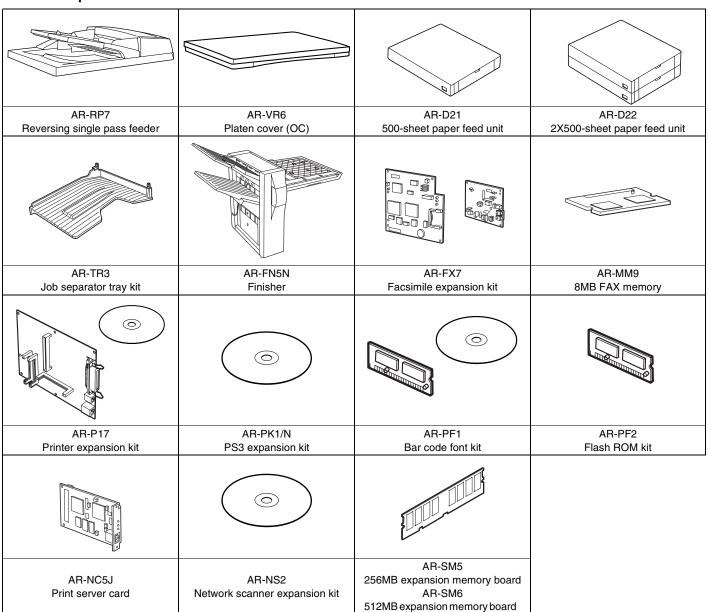
[2] CONFIGURATION

1. Product Line and options

A. Line of machines

Model name	Composition	Model name	Composition
AR-M277/M237 (For SEC/SECL)	Copier/Printer (SPLC) model	AR-M276/M236	Copier/Printer (SPLC) model

B. Line of options



C. Combination of options list

O: Installable

X: Not available

Continu	Option		Main unit Model		Note
Section	Item	Model	AR-M237/M277	AR-M236/M276	Note
Automatic document	Reversing single pass feeder	AR-RP7	Standard	0	
feeder and OC	Platen cover (OC)	AR-VR6	×	0	
Paper feed system	500-sheet paper feed unit	AR-D21	0	0	500 x 1 (80g/m ²)
	2X500-sheet paper feed unit	AR-D22	0	0	500 x 2 (80g/m ²)
Paper exit system	Job separator tray kit	AR-TR3	0	0	
	Finisher	AR-FN5N	0	0	
	Staple cartridge	AR-SC1	0	0	For AR-FN5N
FAX system	Facsimile expansion kit	AR-FX7	0	О	FAX board option available only for SEC/SECL/SEEG/SUK/SCA/SEIS/SEES/SEB/SEN/SEF/SRS/STCL/SRSSC/Philippines/SRH/SBI/SMEF/South Africa/Taiwan/SOCC
	8MB FAX memory	AR-MM9	0	0	
	PC-FAX (only sending)	_	0	0	
Printer system	Printer expansion kit	AR-P17	0	0	
	Print server card	AR-NC5J	0	0	The AR-P17 must be installed.
	Bar code font kit	AR-PF1	0	0	
	Flash ROM kit	AR-PF2	0	0	
	PS3 expansion kit	AR-PK1/N	0	0	
Memory board (From July 2003	256MB expansion memory board	AR-SM5	0	0	
onward)	512MB expansion memory board	AR-SM6	0	0	
Software	Network scanner expansion kit	AR-NS2	0	0	The memory of 128MB must be added.

For details of the options, refer to the Service Manual of each option.

[3] SPECIFICATIONS

This model is designed as an SPLC printer, and can be extended for use as a PCL6/PS3/NC/scanner by options. For details, refer to the Service Manual of the AR-P11/AR-PK1/AR-NC5J/AR-NS2.

1. Basic specifications

(1) Type

Machine Type Desktop type

(2) External dimensions

Floor to OC top surface	623 (W) x 609.5 (D) x 673 (H)mm
	(24.5 (W) x 24 (D) x 26.5 (H) inch)
Floor to Glass surface	623 (W) x 609.5 (D) x 640.5 (H)mm
	(24.5 (W) x 24 (D) x 25.2 (H) inch)
Floor to RSPF surface	623 (W) x 609.5 (D) x 785.5 (H)mm
	(24.5 (W) x 24 (D) x 30.9 (H) inch)

(3) Weight

AR-M276/M236	41.8 kg (including DV), 39.8 kg (excluding DV)
	(92 lbs. (including DV), 87.7 lbs. (excluding DV))
	49.3 kg (including DV), 47.3 kg (excluding DV)
	(108.6 lbs. (including DV), 104.2 lbs. (excluding DV))

(4) Power supply

Voltage	100V/110V/120V/127V/230V (common with 200V)/ 240V
Frequency	50/60Hz common
Power switch	One power source

2. Operation specifications

A. Common operation

(1) Warm up time

Warm-up time	Under 23 sec.
Pre-heat function	Yes

(2) Jam recovery time

About 10sec (Leaving the machine for 60 sec after opening the door, standard condition, polygon stop.)

B. Copy mode

(1) Document size

Max. document size	A3 paper (11" × 17")

(2) Picture quality mode

Picture quality mode	Density adjustment step	Toner save mode
Text Auto mode	1 step	Selectable
Text mode	5 steps	Selectable
Text/Photo mode	5 steps	Selectable
Photo mode	5 steps	_
Super Photo mode	5 steps	_

(3) Copy magnification ratio

Normal mode

Copy magnification ratio	Magnification range/fixed magnification
Zoom width	25 to 400% (50 to 200% for RSPF)
Fixed magnification mode	AB Series: 25, 50, 70, 81, 86, 100, 115, 122, 141, 200, 400% 5R+5E (50, 70, 81, 86, 100, 115, 122, 141 and 200% for RSPF) Inch Series: 25, 50, 64, 77, 100, 121, 129, 200, 400% 4R+4E (50, 64, 77, 100, 121, 129 and 200% for RSPF)
Independent magnification width	25 to 400% for horizontal/vertical (50 to 200% for RSPF)

• 1200 dpi mode

• 1200 api mode	
Copy magnification ratio	Magnification range/fixed magnification
Zoom width	50 to 200% (50 to 141% for RSPF)
Fixed magnification mode	AB Series: 50, 70, 81, 86, 100, 115, 122, 141, 200% 4R+4E (50, 70, 81, 86, 100, 115, 122 and 141% for RSPF) Inch Series: 50, 64, 77, 100, 121, 129, 200% 3R+3E (50, 64, 77, 100, 121 and 129% for RSPF)
Independent magnification width	50 to 200% for horizontal/vertical (50 to 141% for RSPF)
Magnification	Normal copy: 100%±1.0%

(4) Job speed

precision

a. First Copy Time

Normal Less than 4.8 sec. (when the single copy)
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* When paper of A4/Letter is fed from the upper cassette of the machine and discharged.

Enlargement copy: Set magnification ±1.0%

Reduction copy: Set magnification ±1.0%

b. Copy speed

Mod	le	AR-M276/M277	AR-M236/M237
1 scan multi	(600 dpi)	27 cpm	23 cpm
сору	(1200 dpi)	13.5 cpm	13.5 cpm

^{*} When A4/Letter

b. Multi copy speed (sheets/minute)

Document Size	AR-M27	76/M277	AR-M23	36/M237
Document Size	600 dpi	1200 dpi	600 dpi	1200 dpi
A3	15	7.5	12	7.5
B4	17	8.5	14	8.5
A4 (Horizontal feed)	27	13.5	23	13.5
A4 (Vertical feed)	18	9	16	9
B5 (Horizontal feed)	27	13.5	23	13.5
B5 (Vertical feed)	21	10.5	18	10.5
11" × 17"	14	7.5	12	7.5
8-1/2" × 14"	16	8	13	8
8-1/2" × 13"	17	8.5	14	8.5
8-1/2" × 11" (Horizontal feed)	27	13.5	23	13.5
8-1/2" × 11" (Vertical feed)	18	9	16	9
A5/INV	27	13.5	23	13.5

- * The slowest speed is listed in enlargement/reduction copy.
- * Single-side copy

(5) Max. multi-copy (print) quantity

999 sheets

(6) Picture quality

a. Image process

Picture quality mode	Image process (Software)
Text Auto mode	2 gradations
Text mode	Area separation
Text/Photo mode	Error diffusion
Photo mode	
Super Photo mode	Dither

b. Toner save mode

Toner save	percentage	10%
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c. Zoom method

Main scanning direction	Performed through image processing
Sub scanning direction	Performed by image processing and changing scanning speed

d. Resolution

Read

Main scanning direction	Sub scanning direction
400 dpi	400 dpi

• Write

Main scanning direction		Sub scanning direction	
Basic	Virtual	Basic	Virtual
resolution	resolution	resolution	resolution
600 dpi	1200 dpi	600 dpi	1200 dpi

Copy magnification	Position	
ratio	Center	Corners
25% to 49%	_	_
50% to 69%	3.2 line/mm	2.8 line/mm
70% to 94%	3.6 line/mm	3.2 line/mm
95% to 105%	5.0 line/mm	4.5 line/mm
106% to 141%	5.0 line/mm	4.5 line/mm
142% to 400%	5.0 line/mm	4.5 line/mm

e. Gradation

Read	256 gradations
Write	2 gradations

3. Engine specifications

A. Operation and display section

Display unit	Touch panel
Operation system	Button switch system

B. Paper feed, transport, paper exit section

(1) Paper feed ability

Paper feed section	2 cassettes + multi manual feed
Paper feed capacity	500 x 2 + 100 (80 g/m²)
Paper feed size	AB Series: A3 to A6R Inch Series: 11"×17" to 8.5"×5.5"
Remaining detection	Cassette section: empty detection only available Manual paper feed section: empty detection only available

· Details of paper feed section

Paper feed	500 (80 g/m²)
capacity	
Paper weight	56 to 105 g/m² (15 to 28 lbs)
Paper feed size	A3/B4/A4/A4R/B5/B5R/A5/16K/16KR/8K
	8.5×11/8.5×14/11×17/8.5×13/8.5×11R/8.5×5.5
Paper kind	Standard paper (56 to 80 g/m²), normal paper
	(80 to 105 g/m²), special paper
Special paper	Recycle paper
Paper size	User operation (Touch panel operation)
selection	
Cassette	Yes
attachment/	
detachment	
Remarks	A5, 8.5 x 5.5 (only for tray 1)
	B5 is not applicable to tray 2.

· Manual feed section

Paper weight	52 to 200 g/m² (14 to 54 lbs)
Paper Size	AB Series: A3 to A6R
	Inch Series: 11"×17" to 8.5"×5.5"
Paper kind	Multi feed: Standard paper (52 to 80 g/m²), special paper (Recycle paper/OHP/label paper/postcard/envelope), thick paper (max. 200 g/m²) Single feed: Standard paper (52 to 128 g/m²), special paper (Recycle paper/OHP/label paper/postcard/envelope), thick paper (max. 200 g/m²)
Size detection	Yes
Guide display	A3/A4,11,B4/B5,8.5,A4R/A5,B5R,A5R,5.5

^{*} When poor image quality is resulted by the use of OHP sheet, adjust with SIM 44-34.

(2) Finishing ability

Paper exit section		Paper exit tray (1 tray)	
Paper exit face		Face down	
Capacity		500 sheets (A3, B4, 11 x 17, 8.5 x 14,	
		8.5 x 13: 300 sheets)	
Full detection		No	
Paper detection		Yes	
Finishing		Yes	
E-sort capacity	600 dpi	90 sheets (Max. 2970 sheets) of A4	
		standard documents (Sharp A4	
		standard document Test Chart B	
		(6%))	
	1200 dpi	16 sheets (Max. 528 sheets) of A4	
		standard documents (Sharp A4	
		standard document Test Chart B	
		(6%))	
Offset function		Depending on the shifter.	
Stapling		Available when the finisher is	
		installed.	

(3) Job separator exit tray (AR-TR3)

a. Condition

In case of Optional function (printer, FAX) is set up as MFD.

b. Simultaneous wrapping in kit

Job separator tray
Setting manual book

c. Simultaneous wrapping

Setting manual book

d. Function

This exit tray is set up above main exit tray, and can separate copier exit, printer exit and FAX exit.

e. Many of tray

1 (this tray can not set up more than 2)

f. Separator system

by control of main machine

g. Exit paper size

Upper exit tray (Job separator	AB system	A3 to A6
tray)	Inch system	11 x 17 to 8.5 x 5.5
Lower exit tray (Main machine	AB system	A3 to A6
exit tray)	Inch system	11 x 17 to 8.5 x 5.5

h. Exit paper weight

52 to 128g/m² (14 to 34.1lbs)

i. Paper pass

center (same as main unit)

j. Exit area/finishing

Upper exit tray (Job separator tray)	Face down
Lower exit tray (main machine exit tray)	Face down

k. Power supply

Power supply	DC 24V (from main machine)
Power consumption	5.6W

I. Method of movement

with original motor (not with main machine)

m. Machine weight

0.6 kg

n. Exit capacity

Upper exit tray (Job separator)	100 sheets
Lower exit tray (main machine exit tray)	500 sheets (*)

* 300 sheets except for A4/LT

o. Tray full detector

Upper exit tray (Job separator)	Yes
Lower exit tray (main machine exit tray)	Yes

p. Concept of function

Upper exit tray (Job separator)	Copy/FAX/Printer (This setting can be done by users.)
Lower exit tray (main machine exit tray)	Copy/Printer/FAX (This setting can be done by users.)

q. Main color of cabinet

Frosty white

r. Setting

to be easy setting

C. Optical (Image scanning) section

(1) Type

Flat-bed type/monochrome

(2) Document reference position

Rear left reference

(3) Resolution

Main scanning direction	Sub scanning direction
400 dpi	400 dpi

(4) Gradation

256 gradations (8-bit)

(5) Original size/Scanning area

a. Max. original size

A3 paper (11" x 17")

(6) Scanning speed

122mm/sec (600 dpi: magnification ratio 100%) 61mm/sec (1200 dpi: magnification ratio 100%)

(7) Light source (lamp)

Туре	Xenon
Drive voltage	1.5 kV

(8) Read sensor

Туре	Reduction optical system image sensor (CCD)
	Monochrome

D. Scanner (exposure) section

(1) Resolution

Main scanning direction	Sub scanning direction
600 dpi	600 dpi

(2) Gradation

2 gradations

(3) Laser unit specifications

r.p.m.	28,800 rpm
Mirror surfaces	6 faces
Laser power	0.4mW/600dpi, 0.2mW/1200dpi
Laser beam size	60μ (Main scan) x 70μ (Sub scan)
Laser wave length	785nm

E. Image process section

Imaging sp	eed	600 dpi : 122 mm/sec. 1200 dpi : 61 mm/sec.
Photo	Туре	OPC drum (dia. 30mm)
conductor	LIFE	75,000 sheets
Toner	Туре	Developer (Black)
	LIFE	25,000 sheets (Toner, life: 25k, Developer life: 75k)
Charge	System	(-) DC scorotron (saw tooth)
	Voltage	560μA constant electric current
Transfer	System	Transfer roller
	Voltage	18μA (electric current)
Exposure		Xenon lamp
Developing		Dry, 2-component magnetic brush development
Separation		(-) DC scorotron
Discharge		_
Cleaning		Blade

F. Fusing

Туре		Heat roller
Lamp	Туре	Halogen lamp
	Voltage	100V
	Power consumption	1000W
Fusing	temperature	185° (600 dpi)
		160° (1200 dpi)
Heat ro	ller	Teflon coated roller
Pressure roller		Silicone rubber roller with re-engerized cube
		cube
Separation system		Natural separation (with pawl)

G. Drive

Drive section	Motor
Main motor	DC brushless motor

4. Additional functions, copy functions, and expanded functions

APS	Yes (No for APS by flow scan with the RSPF)
AMS	Yes (No for AMS by flow scan with the RSPF)
Stream feeding mode	Yes
Job build function	Yes (Copy/Scan)
Auto tray switching	Yes (No for manual paper feed)
Memory copy (600 dpi)	Yes (1 page memory provided as standard)
Memory copy (1200 dpi)	Yes (1 page memory provided as standard)
Rotation copy	Yes
E-sort	Yes
XY zoom	Yes
	When the OC is used: Landscape/Portrait 25 – 400% (50 – 200% for 1200 dpi) When the RSPF is used: Landscape/Portrait 50 – 200% (50 – 141% for 1200 dpi)
1 set 2 copy	Yes (No for enlargement)
Binding margin	Yes Default AB series: 0 – 20 mm (Unit of 1 mm) Inch series: 0 – 1 inch (Unit of 1/8 inch)
Edge erase	Yes Default AB series: 0 – 20 mm (Unit of 1 mm) Inch series: 0 – 1 inch (Unit of 1/8 inch)
Center frame erase	Yes Default AB series: 0 – 20 mm (Unit of 1 mm) Inch series: 0 – 1 inch (Unit of 1/8 inch)
Booklet copy	Yes (Printing only)
White/black reversion	Yes Whole surface only (Can be inhibited with the simulation.)
2 in 1/4 in 1	Yes
Sorter	Yes Offset function (shifter or finisher) required
Mix paper feed	Yes (Only when this function is set)
Preheating	Yes (Conditions are set with the key operator program.)
Auto power shut off function	Yes (Conditions are set with the key operator program.)
Message display	Yes
Key operator program	Yes
Printer status monitor/Printer administration utility	Yes (A PCL printer board is required (TCP/IP only). To use another protocol, an NIC card is required.)
Wireless LAN support	Yes (A 3rd party part is recommended.)
Coin vendor support	Yes (Option only for the models for dealers)
Auditor support	Yes
Duplex	Yes (Standard)
Total counter	Yes
Toner save	Yes
Department management	Yes (100 departments)
Job registration/call	Yes (10 jobs)
Cover paper	Yes (Insertion and stapling must be allowed from manual feed.)
OHP insert paper	Yes (Only printer function)

Self print function	Yes (The service simulations in the machine and the key operation list are printed.)
Built-in clock	Yes
Paper exit tray selection	(When the finisher is installed) Machine: Copy/FAX/*Printer Top tray: Copy/*FAX Offset tray: Printer/*Copy
	(When the job separator is installed) Machine: *Copy/Printer/FAX Job separator tray: Copy/*Printer/*FAX
	* Default: (The above setup items for each paper exit tray can be changed by the user.)
1 page memory	48MB

5. Safety and environmental protection standards

(1) Safety and environmental protection standards

Item	
Environment acknowledgment	USA: EnergyStar Canada: ECP, EnergyStar Germany: Blue angel conformity Europe: EnergyStar North Europe: Nordic swan
Safety acknowledgement & EMI	USA: UL/FDA/FCC Canada: cUL/FDA/FCC Europe: CE/SEMKO/ITSGS UK: CE/SEMKO/ITSGS Australia: IEC60950 conformity/C-TICK Taiwan: Taiwan EMI (Class B)/CNS conformity Russia: GOST-R Middle East, Africa: CE conformity/IEC60950 conformity/CISPR22 conformity China: CCC Others: ICube/NOM (Mexico)/FCC conformity/ CISPR22 conformity/IS112/IS961-6.1/2

(2) Ozone level

Ozone	Less than 0.02mg/m ³
Dust	Less than 0.075mg/m ³

(3) Noise level

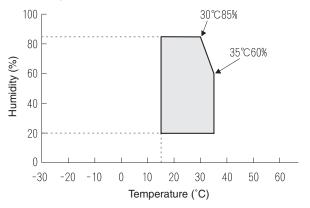
Operating	Less than 63dB
On standby	Less than 40dB

6. Environment conditions

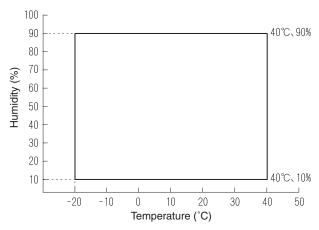
(1) Space required

Folded multi manual feed	628 (W) × 585.5 (D) mm
Open multi manual feed	894 (W) × 585.5 (D) mm

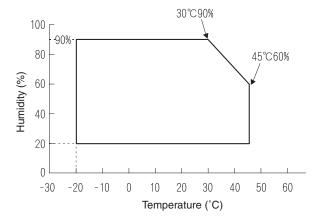
(2) Operating ambient conditions



(3) Ambient storage conditions



(4) Ambient conditions for transporting



(5) Atmospheric pressure

	595 mmHg or above
--	-------------------

(6) Standard temperature and humidity

Temperature	20 to 25°C
Humidity	65±5%RH

7. IMC board functions

* Sort function (Electronic sort)		32MB (Copy: 16MB, Print: 16MB) 90 sheets (max. 1500 sheets) with A4 standard documents at 600dpi, 22 sheets (max. 726 sheets) with A4 standard documents at 1200dpi. Offset paper exit by the shifter function 32MB (Copy: 16MB, Print: 16MB)			
		90 sheets (max. 1500 sheets) with A4 standard documents at 600dpi, 22 sheets (max. 726 sheets) with A4 standard documents at 1200dpi. Offset paper exit by the shifter function			
Rotation copy		If there is paper of the same size as the document size, the image is rotated and printed even though the paper is set in a different direction. (In some cases, enlargement rotation may not be executed.)			
2 in 1/4 in 1		Two pages or four pages of documents are copied on one page of paper. Division can be made with slid lines or dotted lines (by user setup). (The solid line width is 8 lines)			
Edge erase		Images on the edges of the document are erased and copy is made. (Adjustable in the range of 0 – 20mm (0 – 1 inch).)			
Center erase		The center image of the set document is erased and copy is made. (Adjustable in the range of 0 – 20mm (0 – 1 inch).)			
Binding edge		Binding edge is provided on the left, right or the top of the set document.			
Compression m for electronic so	•	32MB			
* Memory read capacity	600dpi	32MB (Copy: 16MB, Print: 16MB) 90 sheets (Max. 1500 sheets) of A4 standard documents (Sharp A4 standard document Test Chart B (6%))			
	1200dpi	22 sheets (Max. 726 sheets) of A4 standard documents (Sharp A4 standard document Test Chart B (6%))			
Memory expans	2 slots for DIMM memory, Max. 512MB x 2 slots + 32MB (Expandable up to 1056MB)				

Note: The number of sheets for the columns marked with "*" is calculated supposing that the same quantity is assigned to the ROPM memory and the copy expansion memory.

8. "Sharp Printer Language with Compression (SPLC)" Printer function

A. Basic specification

Item	Detail
Print Speed	15ppm: 600dpi (including transfer from PC)
	27ppm: ROPM (AR-M277/M276)
	23ppm: ROPM (AR-M237/M236)
Resolution	600dpi
Smoothing	1200dpi x 600dpi
Toner Save Mode	Standard
Input tray	Multi Bypass tray
	Tray 1, Tray 2, Tray 3, Tray 4
	(Depending on conditions of the machine
	and option installation.)
Duplex print	Standard
Finisher	Option
Printer driver	Standard
Manual (Online	Standard
manual)	
Platform	IBM PC/AT (Include compatible machine)

Item	Detail
Support OS (Printer	Windows 95/98/Me
Driver)	Windows NT 4.0 Workstation (SP5 or later)
	Windows 2000 Professional
	Windows XP Home/Professional Edition

B. Printer driver specification

(1) System

Machine	OS
IBM PC/AT	Windows 95/98/Me
(Include	Windows NT 4.0 Workstation (SP5 or later)
compatible	Windows 2000 Professional
machine)	Windows XP Home/Professional Edition

(2) Printing function specification

1	Function	Content				
General	Copies	1-999				
	Orientation	Portrait				
		Landscape				
	Collate	Collate				
		Uncollate				
	Document Style	1-Sided, 2-Sided (Book),				
		2-Sided (Tablet)				
	N-up printing	2/4				
	N-up Order	Z				
	N-up Border	Yes/No				
	User Setting	Yes				
Paper Input	Paper Size	A3 / B4 / A4 / B5 / A5 / B6 /				
		A6 / Ledger (11x17) /				
		Legal (8.5 x 14) /				
		Foolscap (8.5 x 13) /				
		Letter (8.5 x 11) /				
		Invoice (5.5 x 8.5) / Folio /				
		Executive / COM-10 /				
		DL / C5 / 8K / 16K				
	Custom Paper Size	1 size				
	Source Selection	Auto				
		Bypass (Auto)				
		Bypass (Manual)				
		• Tray 1/2/3/4				
	Paper Type	Tray: Normal paper, letter				
		head paper, recycle paper,				
		colored paper				
		Bypass: Normal paper, letter				
		head paper, recycle paper,				
		colored paper, thick paper,				
		thin paper, label paper, OHP,				
		postcard, envelope				
	Transparency print	Yes / No				
Paper Output	Output Tray Selection	Center Tray				
		Upper Tray				
		Finisher Offset tray				
	Staple	Yes / No				
Graphic	Print Quality	Normal				
		Draft				
		Photo				
	Smoothing	Yes / No				
	Toner save	Yes / No				
	Photo Enhancement	Yes / No				
	Fit to Page	Yes / No				
	2 Gradation print	Yes / No				
1						
	Image Adjustment	Brightness : 0 to 100 Contrast : 0 to 100				

r-		
	Function	Content
Watermark	Watermark	(None) / TOP SECRET /
		CONFIDENTIAL / DRAFT /
		ORIGINAL / COPY
	User setting	Add / Update / Delete
	Position	Center
		X: ±50
		Y: ±50
	Size	6 to 300
	Angle	±90
	Gray Scale	0 to 255
	Edit Font	Yes
	On first page only	Yes / No
Configuration	Input Trays	Two / Three / Four trays
Setting	Output Tray Options	None / Upper Tray / Staple
		Finisher
	Set Tray Status	Yes
	Version Information	Yes
Others	ROPM	Yes / No

(3) Print quality

		_			
Mode	Control	Content			
Resolution/Print	600dpi	Print quality is selected from			
quality	(Fixed)	Normal*/Draft/Photo.			
Smoothing	On*	Smoothing function is ON.			
	Off	Smoothing function is OFF.			
Toner Save Mode	On	Toner save function is ON.			
	Off*	Toner save function is OFF.			
Photo Enhancement	On	Photo enhancement function is ON.			
	Off*	Photo enhancement function is			
		OFF.			
2 Gradation print	On	2-Gradation print function is ON.			
	Off*	2-Gradation print function is OFF.			

^{*} Default

(5) Paper handling specifications

a. Paper feed direction

Limitations on tray/functions for support paper

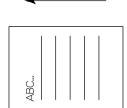
	Paper size	Paper feed tray				Paper exit tray			Function		
Paper name		Manual tray	Tray 1	Tray 2	Tray 3	Tray 4	Center tray	Upper tray	Offset tray	Staple	Fit page
A3	297 x 420 mm	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
A4	210 x 297 mm	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
A5	148 x 210 mm	Yes	Yes	N/A	N/A	N/A	Yes	Yes	N/A	N/A	Yes
A6	105 x 148 mm	Yes	N/A	N/A	N/A	N/A	Yes	N/A	N/A	N/A	Yes
B4	257 x 364 mm	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
B5	182 x 257 mm	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
B6	128 x 182 mm	Yes	N/A	N/A	N/A	N/A	Yes	Yes	N/A	N/A	Yes
Ledger	11 x 17 inch	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Letter	8.5 x 11 inch	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Legal	8.5 x 14 inch	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Executive	7.25 x 10.5 inch	Yes	N/A	N/A	N/A	N/A	Yes	Yes	N/A	N/A	Yes
Folio	8.3 x 13 inch	Yes	N/A	N/A	N/A	N/A	Yes	Yes	N/A	N/A	Yes
Invoice	5.5 x 8.5 inch	Yes	Yes	N/A	N/A	N/A	Yes	Yes	N/A	N/A	Yes
Foolscap	8.5 x 13 inch	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
8K	270 x 390 mm	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes
16K	195 x 270 mm	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes
DL	110 x 220 mm	Yes	N/A	N/A	N/A	N/A	Yes	Yes	N/A	N/A	Yes
C5	162 x 229 mm	Yes	N/A	N/A	N/A	N/A	Yes	Yes	N/A	N/A	Yes
Com10	4.125 x 9.5 inch	Yes	N/A	N/A	N/A	N/A	Yes	Yes	N/A	N/A	Yes
Custom	W: 100 to 297 mm L: 148 to 431.8 mm	Yes	N/A	N/A	N/A	N/A	Yes	N/A	N/A	N/A	N/A

Setting direction toward paper feed port = Long side

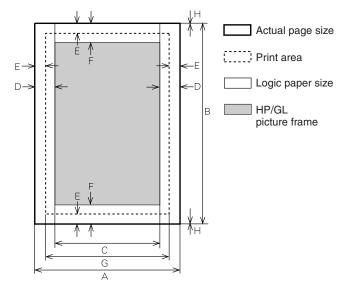
Setting direction toward paper feed port = Short side

Transfer direction

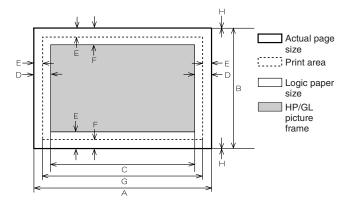




(6) Print enable area



Paper Size	Α	В	С	D	Е	F	G	Н
A3	7014	9920	6730	142	100	300	6814	0
B4	6070	8597	5786	142	100	300	5870	0
A4	4960	7014	4676	142	100	300	4760	0
B5	4298	6070	5770	142	100	300	4098	0
A5	3508	4960	3224	142	100	300	3308	0
Ledger	6600	10200	6300	150	100	300	6400	0
Legal	5100	8400	4800	150	100	300	4900	0
Letter	5100	6600	4800	150	100	300	4900	0
Invoice	3300	5100	3000	150	100	300	3100	0
Foolscap	5100	7800	4800	150	100	300	4900	0
Folio	4980	7800	4680	150	100	300	4780	0
Executive	4350	6300	4050	150	100	300	4150	0
COM-10	2474	5700	2174	150	100	300	2274	0
C5	3826	5408	3542	142	100	300	3626	0
DL	2598	5196	2314	142	100	300	2398	0



Paper Size	Α	В	С	D	Е	F	G	Н
A3	9920	7014	9684	118	100	300	9720	0
B4	8597	6070	8361	118	100	300	8397	0
A4	7014	4960	6778	118	100	300	6814	0
B5	6070	4298	5830	118	100	300	5870	0
A5	4960	3508	4720	118	100	300	4760	0
Ledger	8400	5100	8160	120	100	300	8200	0
Legal	8400	5100	8160	120	100	300	8200	0
Letter	6600	5100	6360	120	100	300	6400	0
Invoice	5100	3300	2860	120	100	300	4900	0
Foolscap	7800	5100	7560	120	100	300	7600	0
Folio	7800	4980	7560	120	100	300	7600	0
Executive	6300	4350	6060	120	100	300	6100	0
COM-10	5700	2474	3460	120	100	300	5500	0
C5	5408	3826	5172	118	100	300	5208	0
DL	5196	2598	4960	118	100	300	4996	0

* Top margin

The set value is received from the digital copier, and data are made according to the set value.

* Left margin

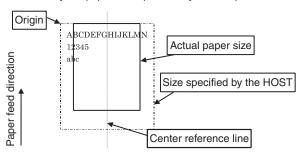
Since the paper size sensor is not set, the digital copier cannot recognize the size and direction of paper which is actually inserted.

Therefore, the left margin is set according to the paper size specified in the print data sent from the computer, and print process is performed. If the computer does not specify the paper size, or in the case of the custom size, the left margin is set according to the default paper size.

(7) Print reference

This machine employs the center reference system.

Since the digital copier is not provided with the tray size detection feature, formatting and center distribution are performed not by the actual paper size but by the paper size specified by the computer.



C. Interface

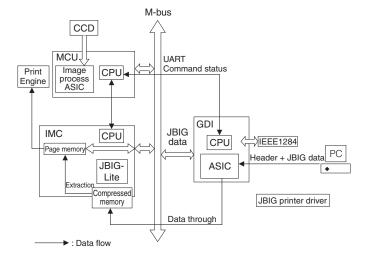
Interface	IEEE 1284 (Parallel interface)
	USB Ver. 2.0

D. System outline

The GDI-PWB is provided with IEEE1284 I/F on the host side, and the 16-bit bi-directional data bus I/F and UART on the machine side. Transfer of image data with the IMC-PWB is performed with this 16-bit bi-directional data bus. Command status information with the engine is processed with UART.

This unit is installed to the position of PCL-PWB on the conventional AR-235/275.

JBIG compression data sent from the host are transferred to the IMC PWB, where the data are extracted to be VIDEO data, and sent through the MCU PWB to the LSU.



[4] CONSUMABLE PARTS

1. List

A. SEC/LAG/SECL

No.	Item	Content		Life	Model name	Remarks
1	Toner CA (black) w/IC	Toner	×10	25K (×10)	AR-270MT	Life setting by A4 (8.5"×11") 6% document
		Vinyl bag	×10			MT=NT*10
2	Developer	Developer	×10	75K (×10)	AR-271MD	MD=ND*10
		(Developer; Net weight 500g)				
3	Drum kit	Drum	×1	75K	AR-271DR	
4	Upper heat roller kit	Upper heat roller	×1	150K	AR-272UH	
		Fusing gear	×1			
		Upper heat roller bearing	×2			
		Upper cleaning pad	×1			
		Fusing separation pawl (upper)	×4			
5	Lower heat roller kit	Lower heat roller	×1	300K	AR-272LH	
		Fusing separation pawl (lower)	×4			
		Fusing busing (lower)	×2			
6	150K maintenance kit	Drum separation unit	×2	150K	AR-272KA1	
		Transfer roller unit	×1			
		DV seal	×1			
		DV side sheet N	×1			
		DV side sheet N2	×1			
		DV side mylar	×2			
7	MC unit	MC unit	×10	75K (×10)	AR-270MC	
_	Cleaner blade	Cleaner blade	×10	75K (×10)	AR-270CB	
9	Drum frame unit	Drum frame unit	×1	225K	AR-272DU	* The life of the toner reception seat welded to the
						drum frame is 225K, and it can be used up to 3
						times. (Supplied as a drum frame unit.)
						* Drum frame unit contains all the drum unit parts
						excluding Drum and Drum fixing plate.
10	Staple cartridge	Staple cartridge	×3	3000 staples	AR-SC1	For AR-FN5N (For 30 sheets staple)
	-	_		×3		
11	Transfer roller unit	Transfer roller unit	×1	150K	AR-272TX	
12	Paper feed roller kit	Paper feed roller kit	×1	100K	AR-271IR	
13	Fusing unit	Fusing unit (120V heater lamp)	×1	150K	AR-272FU	

 $[\]ast$ The other maintenance parts than the above are supplied as service parts.

B. SEEG/SUK/SCA/SCNZ/SEA/SEES/SEZ/SEIS/SEB/SEN/SEF/SMEF/Russia/Special country

No.	Item	Content		Life	Model name	Remarks
1	Toner CA (black) w/IC	Toner	×10	25K (×10)	AR-270LT	Life setting by A4 (8.5"×11") 6% document
		Vinyl bag	×10			LT=T*10
2	Developer	Developer	×10	75K (×10)	AR-271LD	LD=DV*10
		(Developer; Net weight 500g)				
3	Drum kit	Drum	×1	75K	AR-271DM	
4	Upper heat roller kit	Upper heat roller	×1	150K	AR-272UH	
		Fusing gear	×1			
		Upper heat roller bearing	×2			
		Upper cleaning pad	×1			
		Fusing separation pawl (upper)	×4			
5	Lower heat roller kit	Lower heat roller	×1	300K	AR-272LH	
		Fusing separation pawl (lower)	×4			
		Fusing busing (lower)	×2			
6	150K PM kit	Drum separation unit	×2	150K	AR-272KA	
		Transfer roller unit	×1			
		DV seal	×1			
		DV side sheet N	×1			
		DV side sheet N2	×1			
		DV side mylar	×2			
7	MC unit	MC unit	×10	75K (×10)	AR-270MC	
8	Cleaner blade	Cleaner blade	×10	75K (×10)	AR-270CB	
9	Drum frame unit	Drum frame unit	×1	225K	AR-272DU	* The life of the toner reception seat welded to the
						drum frame is 225K, and it can be used up to 3
						times. (Supplied as a drum frame unit.)
						* Drum frame unit contains all the drum unit parts
						excluding Drum and Drum fixing plate.
10	Staple cartridge	Staple cartridge	×3	3000 staples	AR-SC1	For AR-FN5N (For 30 sheets staple)
				×3		
11	Transfer roller unit	Transfer roller unit	×1	150K	AR-272TX	

 $[\]ast\,$ The other maintenance parts than the above are supplied as service parts.

C. STCL/SRH/SRS/SRSSC/SBI/Agent

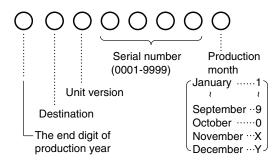
No.	Item	Content		Life	Model name	Remarks
1	Toner CA (black) w/IC	Toner Vinyl bag	×10 ×10	25K (×10)	AR-270CT	Life setting by A4 (8.5"×11") 6% document CT=ST*10
2	Developer	Developer (Developer; Net weight 500g)	×10	75K (×10)	AR-271CD	CD=SD*10
3	Drum kit	Drum	×1	75K	AR-271DR	
4	Upper heat roller kit	Upper heat roller Fusing gear Upper heat roller bearing Upper cleaning pad Fusing separation pawl (upper)	×1 ×1 ×2 ×1 ×4	150K	AR-272UH	
5	Lower heat roller kit	Lower heat roller Fusing separation pawl (lower) Fusing busing (lower)	×1 ×4 ×2	300K	AR-272LH	
6	150K PM kit	Drum separation unit Transfer roller unit DV seal DV side sheet N DV side sheet N2 DV side mylar	×2 ×1 ×1 ×1 ×1 ×1 ×2	150K	AR-272KA	
7	MC unit	MC unit	×10	75K (×10)	AR-270MC	
8	Cleaner blade	Cleaner blade	×10	75K (×10)	AR-270CB	
9	Drum frame unit	Drum frame unit	x1	225K	AR-272DU	The life of the toner reception seat welded to the drum frame is 225K, and it can be used up to 3 times. (Supplied as a drum frame unit.) Trum frame unit contains all the drum unit parts excluding Drum and Drum fixing plate.
10	Staple cartridge	Staple cartridge	×3	3000 staples ×3	AR-SC1	For AR-FN5N (For 30 sheets staple)

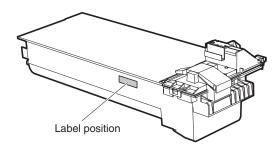
^{*} The other maintenance parts than the above are supplied as service parts.

2. Production number identification

<TD cartridge>

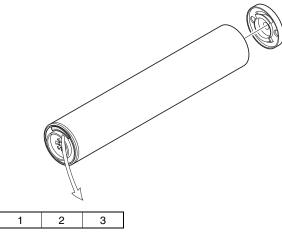
The label on the TD cartridge shows the date of production.





<Drum>

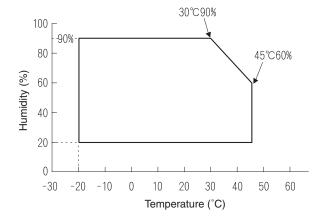
The laser print indicates the date (year, month, day) of production.



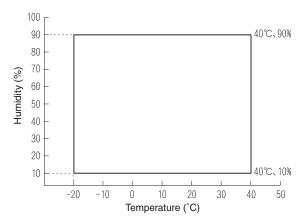
- 1 The last digit of the production year.
- 2 The production month.
 X stands for October, Y November, and Z December.
- 3 The production sub lot.

3. Environment conditions

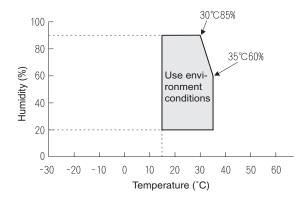
A. Ambient conditions for transporting



B. Ambient storage conditions (sealed)



C. Operating ambient conditions



4. Life (packed conditions)

Photoconductor drum (36 months from the production month) Developer, toner (24 months from the production month)

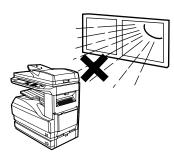
[5] UNPACKING AND INSTALLATION

1. Installation

A. Environment

The performance of this machine is affected by the environment of the installing site. Avoid installation to the following places:

 Avoid installation in direct sunlight, otherwise the plastic parts may be deformed



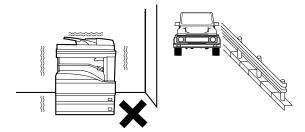
 Avoid installation in a place of high temperature, high humidity, low temperature or low humidity, otherwise paper may be dampened and frost may be generated in the machine to cause a paper jam and dirty copy.



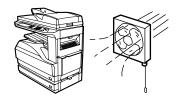
 Avoid installation in a dusty place, otherwise dust may enter the machine to cause dirty copy or machine troubles.



 Avoid installation to a place with much vibration, otherwise the machine may cause troubles.



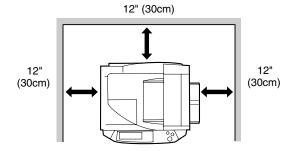
· Avoid installation to a place of poor ventilation.



Avoid installation to a place where there is ammonium gas.
 Installation near a diazo-copier may lead to dirty copy.



Be sure to have enough space around the machine.
 Be sure to allow the required space around the machine for servicing and proper ventilation.

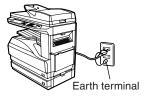


B. Power source

- Be sure to use only the power outlet (with the earth terminal) of 15A or more and 100V.
- Install the machine near the power outlet to facilitate disconnection of the power plug.
- If the power plug of this machine and other illuminating apparatus are connected to the same power outlet, the lamp may flicker. Use an exclusive power outlet for this machine without connecting another lamp together.
- Avoid complex wiring. Be careful not to damage, break, or process the power cord.

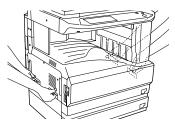


Earth wire connection
 Be sure to connect the earth wire for protection against danger.
 If not, a leakage may cause a fire or an electric shock.



C. Transport

• When transporting the machine, use manpower of two persons to hold the grips on the both sides of the machine with both hands.



D. Other precautions

 If the machine produces smoke or bad smell, stop the operation of the machine.



- · Do not use flammable spray near the machine.
- · Do not remove the cabinet of the machine.
- Do not put a receptacle with water in it or metal pieces, which may drop inside the machine, causing a trouble.



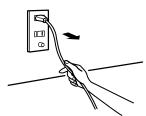
- When it thunders, turn off the power and disconnect the power plug from the power outlet to prevent against an electric shock or a fire caused by lighting damage.
- If a piece of metal or water enters the machine, turn off the power and disconnect the power plug from the power outlet.
- · Do not touch the power plug with a wet hand.



- Do not remodel the machine.
- Be careful not to pinch your fingers when closing the front cover or the side cover and setting the paper feed tray to supply paper or process a paper jam.



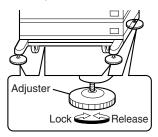
 When disconnecting the power plug from the power outlet, do not pull the cord.



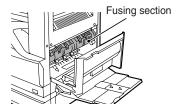
- Do not throw toner or the toner cartridge into a fire.
- Keep toner or the toner cartridge away from the children.

When the exclusive table (option) is used, be sure to use the adjusters (4 pcs.) on the floor.

When it is required to move the machine for rearrangement of the office, etc., release the adjuster locks and move the machine.



The fusing section is heated to a high temperature.
 When removing a paper jam, be careful not to touch the fusing section.

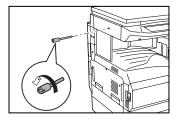


- When the machine is not used for a long time, disconnect the power plug from the power outlet for safety.
- When transporting the machine, turn off the power and disconnect the power plug from the power outlet. (Remove the earth wire after disconnecting the power plug from the power outlet.)

2. Removal of protective material and fixing screw

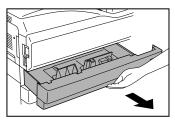
- Remove all tapes, then open the document cover and remove the protective material of sheet shape.
- 2) Use a screwdriver to remove the fixing screw.

The fixing screw is required when transporting the machine. Keep it in the tray. (Refer to the later description.)

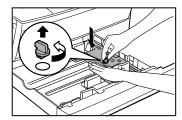


3. Removal and storage of fixing pin

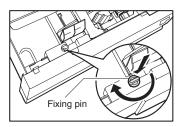
1) Lift the knob and gently pull out the tray.

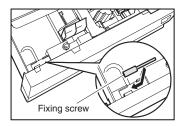


Hold the paper pressure plate and turn the fixing pin in the arrow direction.



 Store the removed fixing pin and the fixing screw which was removed in the above procedure, together in the specified storage place in the tray.

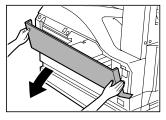




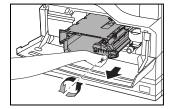
* If power is turned don without removing the fixing pin, it will be difficult to pull out the tray.

4. Developer cartridge installation

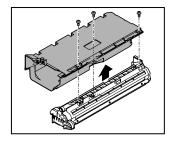
1) Hold the both sides of the front cover, and pull down to open it.



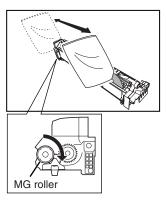
2) Loosen the blue screw and pull out the developing cartridge.



3) Remove the developer tank from the developer cartridge.



 Rotate the MG roller in the arrow direction and supply developer evenly into the developing unit.

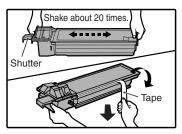


- * Shake the developer bag enough before opening it.
- * Check that the DV seal is free from developer. If developer is attached to the DV seal, clean and remove it.
- Attach the developer tank to the developer cartridge.
 After supplying developer into the developer cartridge, do not tilt or shake the developer cartridge.
- Attach the developer cartridge to the copier, and fix it with the screw.

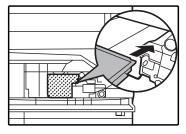
Note: When replacing the OPC drum with a new one, be sure to clear the drum count.

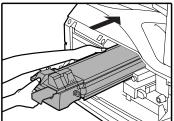
5. Toner cartridge installation

 Remove the toner cartridge from the bag, shake it about 20 times horizontally, and remove the tape.



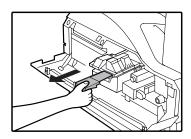
- * When holding the toner cartridge, do not touch the shutter section, but hold the grips. Do not remove the tape before shaking the cartridge.
- Press the lock release lever, and insert the unit completely into the copier along the guide groove. Then fix the blue screw and the locking screw.





 Dirt or dust must be removed from the toner cartridge before installing. Remove the tape from the shutter, and remove the shutter from the toner cartridge.

Dispose the removed shutter.



6. Toner density sensor level adjustment

- 1) Open the cover with the power OFF.
- 2) Power ON (The mechanism cannot be initialized because the cover is open.)
- 3) Install the developing unit with new developer in it.
- 4) Enter SIM 25-2.

$$(\# \rightarrow * \rightarrow C \rightarrow * \rightarrow 25 \rightarrow START \rightarrow 2 \rightarrow START)$$

- 5) Close the cover immediately before starting the operation.
- 6) Press the [START] key to start.

After completion of the adjustment, be sure to cancel the simulation.

Note: When replacing developer with new one, be sure to clear the developer counter.

7. Tray paper size setting

When the tray paper size is changed, set the tray paper size in the following procedure.

During temporary halt due to paper empty or a paper jam or during interruption copy, the paper size setting cannot be made.

During FAX data output (when the FAX function is provided) or during printing (when the printing function is provided), the paper size setting cannot be made even in the copy mode.

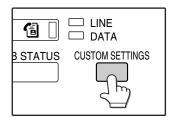
Note: A5 (5 1/2" x 8 1/2") size paper can be set only to the first tray and the manual feed tray.

B5 size paper cannot be set to the second tray. (B5R size paper can be set.)

A. Trays 1 - 4

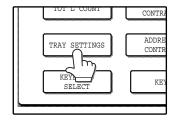
- 1) Set paper on the tray.
- 2) Press the [CUSTOM SETTINGS] key.

The custom settings menu screen will appear.



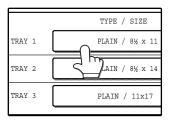
3) Touch the [TRAY SETTINGS] key.

The tray settings screen will appear.



4) Select the tray in which you loaded paper.

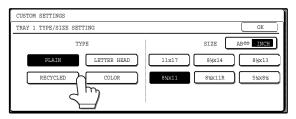
If the desired tray does not appear in the display, use the $[\uparrow]$ key or $[\downarrow]$ key to scroll until it appears.



5) Select the size and type of paper that is loaded in the tray.

The currently selected paper type will be highlighted.

- To change the paper type selection, touch the appropriate type key.
- To change the paper size selection, touch the appropriate size key.



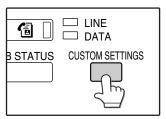
- 6) Touch the [OK] key.
- A message appears prompting you to check the paper in the tray.
 Check the paper and then touch the [OK] key.

You will return to the tray settings screen.

B. Manual feed tray

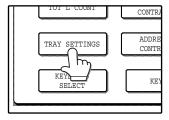
- 1) Set paper on the tray.
- 2) Press the [CUSTOM SETTINGS] key.

The custom settings menu screen will appear.

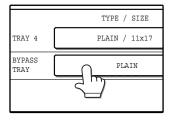


3) Touch the [TRAY SETTINGS] key.

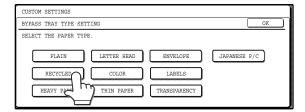
The tray settings screen will appear.



4) Touch the [BYPASS TRAY] key.



Select the type of paper that is loaded in the tray.
 Touch the appropriate paper type key.

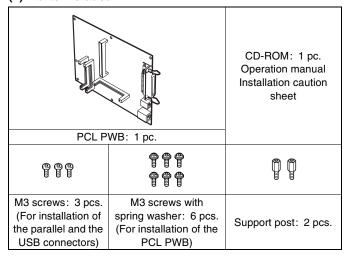


6) Touch the [OK] key.You will return to the tray settings screen.

8. Installation of options

A. AR-P17

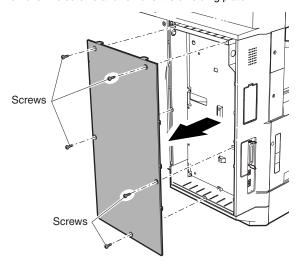
(1) Parts included



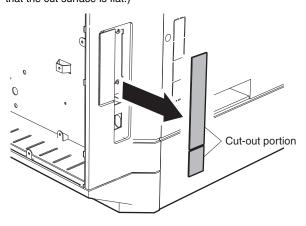
(2) Installation procedure

Turn off the main switch of the copier and then remove the power plug of the copier from the outlet.

Remove the shielding plate.
 Remove five screws and remove the shielding plate.



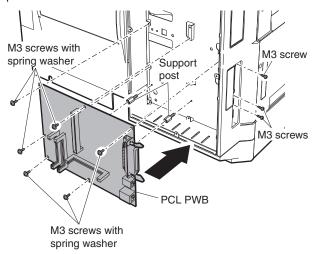
2) Cut and remove the cut-out portion from the left rear cabinet. Cut and remove the cut-out portion from the left rear cabinet using a tool such as nippers. (Be careful about the direction of the tool so that the cut surface is flat.)



3) Attach the PCL PWB unit.

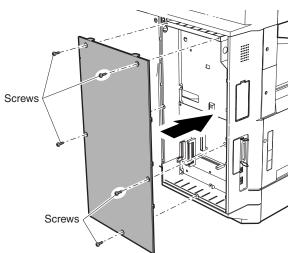
Attach the support post to the mounting plate of machine options. Then connect the PCL PWB connector to the mother board connector and fit the PCL PWB with the six screws with M3 spring washer (packed with the unit).

Then, attach the parallel and USB connector portion using the supplied three screws.



4) Attach the shielding plate.

Attach the shielding plate using five screws.



Insert the power plug of the copier to the outlet and turn on the main switch. Then, carry out the following procedure.

5) Check for the PCL PWB.

Press the PRINT key on the operation panel to check to see if the copier enters the print mode.

6) Check for the language.

Check for the language setting (26-22) following the procedure described in the service manual (section of simulation).

7) Check for printing.

For installation of printer drivers on a computer, see the supplied operation manual.

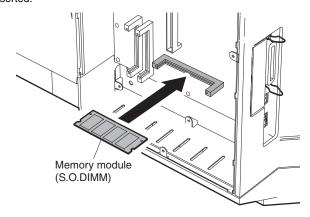
Then, connect a parallel cable to the computer and execute printing to check to see if printing can be executed properly.

(3) Mounting of additional memory

(After mounting it, Installation proceed to step 4.)

Insert the memory module until it clicks.

The memory module is lock when it is inserted. However, be sure to check that the module slit is engaged with the connector rib when it is inserted.



B. AR-PK1

(1) Parts included

CD-ROM: 1* License agreement Installation caution sheet

*NOTE: Do not use the CD-ROM packed in AR-PK1, but use the CD-ROM packed together with the AR-P17 for setting the PS driver.

(2) Installation procedure

To enable the PS3, the product key must be acquired.

(For the method of acquiring the product key, contact the SHARP authorized dealer.)

- 1) Check that AR-P17 operates normally.
 - Turn on the power and wait until warming up is complete.
 - Press the PRINT key on the operation panel of the main unit.
 - If the LCD in the operation panel of the main unit switches to the print mode normally, AR-P17 is operating normally.
 - If it is not operating normally, follow the AR-P17 Installation Manual to check and modify the system configuration settings and check the operation.

2) Enable the PS3.

To enable the system configuration, use the keys on the main unit to set the mode.

Enter the product key with the key operator program. (Refer to the Operation Manual of Key Operator Program.)

Setting of the product key is complete. To update the system, press the CA key to exit the setting mode.

3) Check the PS3.

Make the following sequence of selections on the control panel.

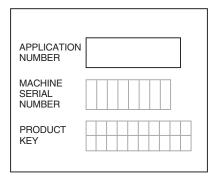
- · Press Special Functions , highlight Configuration and press OK.
- Use the up and down keys to highlight Test print menu and press OK.
- Use the up/down keys to highlight Configuration page and press OK.

A configuration page will be printed.

Check that the option memory capacity is 128 MB or more.

Check that the PS3 has been installed.

Please keep below important information. This information will use for other products.



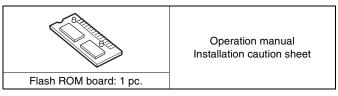
C. AR-PF1/PF2

(1) Parts included

AR-PF1



AR-PF2

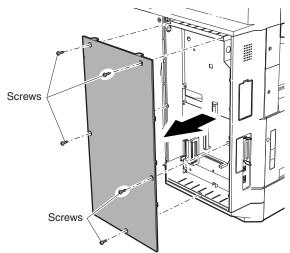


(2) Installation

Turn off the main switch of the copier and then remove the power plug of the copier from the outlet.

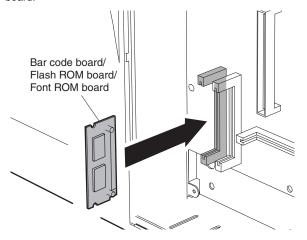
1) Remove the shielding plate.

Remove five screws and remove the shielding plate.



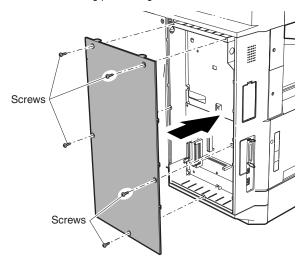
2) Attach the bar code board/flash ROM.

Attach the bar code board/flash ROM board to CN7 of the printer board.



3) Attach the shielding plate.

Attach the shielding plate using the five screws.



Insert the power plug of the copier to the outlet and turn on the main switch. Then, carry out the following procedure.

4) Check the bar codes. (AR-PF1 only)

Use the operation keys on the operation panel to print the PCL font list from the test page printing.

Check that the optional font list is printed at the end.

(3) Font list

Font No.	Font name	Font No.	Font name
1	Code128TT-Regular	15	OCR-A
2	Code128-NarrowTT-Regular	16	OCR-B
3	Code128-WideTT-Regular	17	OCR-B-C39-Regular
4	Code39HalfInch-Regular	18	Upc-Half
5	Code39OneInch-Regular	19	Upc-Half-Bars
6	Code39QuarterInch-Regular	20	Upc-HalfMusic
7	Code39SmallHigh-Regular	21	Upc-HalfNarrow
8	Code39Slim-Regular	22	Upc-HalfThin
9	Code39SmallLow-Regular	23	Upc-Tall-Regular
10	Code39SmallMedium-Regular	24	Upc-TallBarsThin-regular
11	Code39Wide-Regular	25	Upc-TallMusicThin-Regular
12	Codabar-Regular	26	Upc-TallNarrow-Regular
13	Interleaved2of5-Regular	27	Upc-TallThin-regular
14	Interleaved2of5-Thin-Regular	28	ZipCodeBarcode-Regular

(4) Check when installing the AR-PF2

Check can be made by print out of the printer setting list.

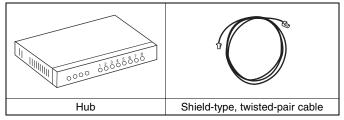
The expansion font item in the printer setting list is changed from "uninstalled" to "download font."

D. AR-NC5J

(1) Connection to a network

To connect the AR-NC5J to a network, the following items are required.

 For connection in the 100BASE-TX environment, a hub conforming to 100BASE-TX and a shield-type, twisted-pair cable (Category 5) are required.



- Check that the printer power is off, and connect the shield-type, twisted-pair cable to the 10/100BASE connector of the AR-NC5J.
- 2) Connect the other end of the cable to the hub.
- Turn on the printer power, and check that the printer operates normally.

(2) Parts included

	### ##################################	
Print server card: 1 pc.	Screws (silver) M3 x 8: 2 pcs.	Spacers: 2 pcs. (only the one is used)
CD-ROM: 1 pc.	Operation manual	Installation caution sheet

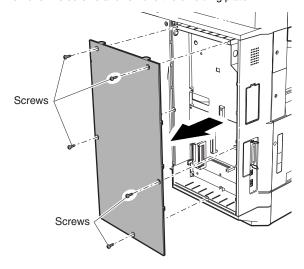
(3) Installation procedure

In this case, no spacer is used in the packed items of the AR-NC5J.

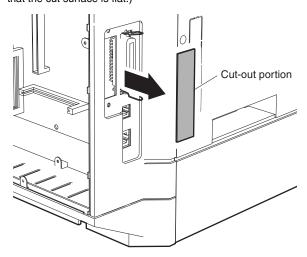
Turn off the main switch of the copier and then remove the power plug of the copier from the outlet.

1) Remove the shielding plate.

Remove five screws and remove the shielding plate.

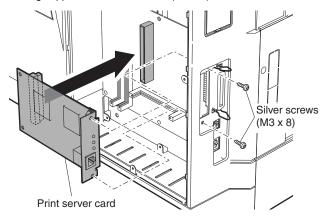


 Cut and remove the cut-out portion from the left rear cabinet.
 Cut and remove the cut-out portion from the left rear cabinet using a tool such as nippers. (Be careful about the direction of the tool so that the cut surface is flat.)



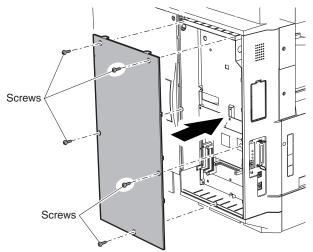
3) Attach the print server card.

Align the connector positions, connect the print server card, and then secure the card to the option mounting plate in the main unit using supplied two silver screws ($M3 \times 8$).

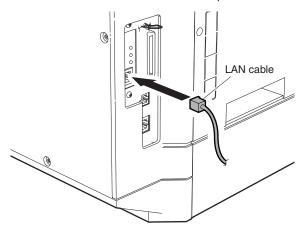


4) Reattach the shielding plate.

Reattach the shielding plate using five screws.



Connect the cable to the control PWB.
 Connect a LAN cable to the connector of the print server card.



Insert the power plug of the copier to the outlet and turn on the main switch. Then, carry out the following procedure.

6) Check for the print server card.

Use the keys on the operation panel to print a configuration page. Check that the network interface card has been installed.

7) Check for printing.

Perform setup of the environmental variables.

(For installation of printer drivers on a computer and network settings (IP address input), see the supplied operation manual.)

Execute printing to check to see if printing can be executed prop-

E. AR-NS2

(1) Packed items

This network scanner kit includes the following items in the package.

- CD-ROM (Network Scanner Tool and Sharpdesk, Installer, Sharp TWAIN driver, etc.)
- Installation caution sheet and Operation Manual (License numbers of 10 user clients of Sharpdesk are specified.)

(2) Installation procedure

To use the scanner expansion kit, a S.O.DIMM memory module (128 MB or more) is needed.

If no memory is added, an S.O.DIMM module must be mounted on $\operatorname{PCL}\operatorname{PWB}$.

For the mounting method and the memory capacity, see below.

To enable the scanner function, the product key must be acquired. (For the method of acquiring the product key, contact the SHARP authorized dealer.)

- 1) Check the capacity of the Printer PWB memory.
 - Use the keys of the copier to print the configuration page. (For details, see the operation manual.)
 - Check that the capacity of the optional memory is 128 MB or more.
- 2) Enable the network scanner feature.

To enable the system configuration, use the keys on the copier to set the mode.

Enter the product key with the key operator program. (Refer to the Operation Manual of Key Operator Program.)

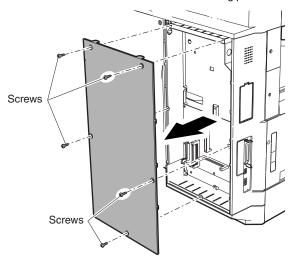
Setting of the product key is completed. Press the [EXIT] key to update the system and exit the setting mode.

(3) Mounting the additional memory

Turn off the main switch of the copier and then remove the power plug of the copier from the outlet.

1) Remove the shielding plate.

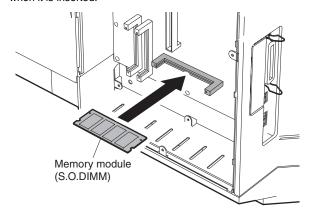
Remove the five screws and remove the shielding plate.



2) Mount the memory module.

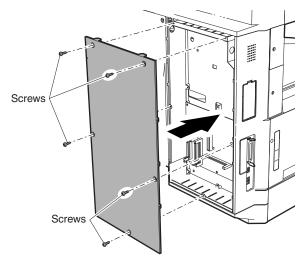
Insert the memory module until it clicks.

The memory module is lock when it is inserted. However, be sure to check that the module slit is engaged with the connector rib when it is inserted.



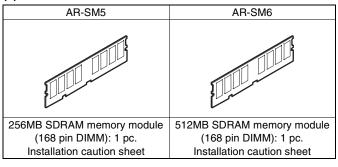
3) Reattach the shielding plate.

Reattach the shielding plate using the five screws.



F. AR-SM5/SM6

(1) Parts included

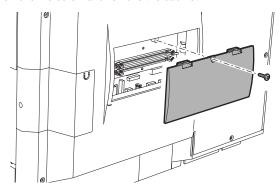


(2) Installation procedure

Turn off the main switch of the copier and then remove the power plug of the copier from the outlet.

1) Remove the shielding plate.

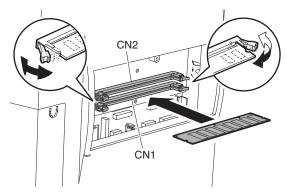
Remove the screw and remove the cabinet.



2) Attach the SDRAM memory module.

Attach the SDRAM memory module to CN1 and CN2 of the IMC board.

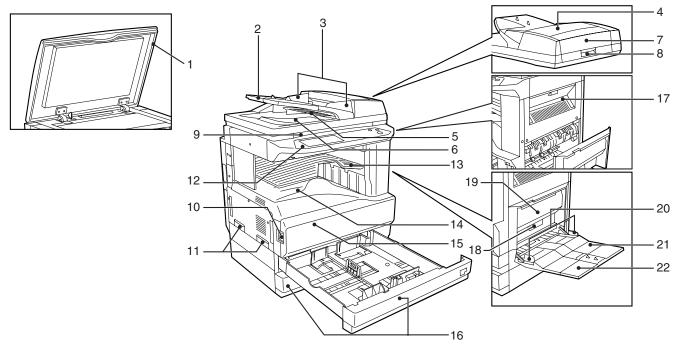
When only one SDRAM memory module is used, attach it to CN1.



[6] EXTERNAL VIEW AND INTERNAL STRUCTURE

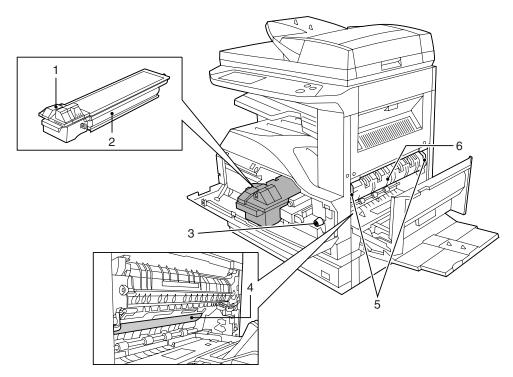
1. Name and function of each section

A. External view



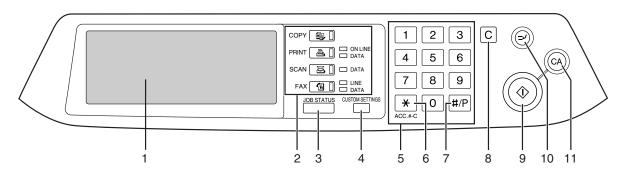
No.	Name	Function/Operation	Note
1	Platen cover (optional)	Presses a document.	Optional (AR-M236/M276)
2	Document feeder tray	Place the original(s) that you wish to scan face up here.	When the reversing single
3	Original guides	Adjust to the size of the originals.	pass feeder installed. (AR-
4	Document feeder cover	Open to remove misfed originals.	M237/M277: Standard)
5	Reversing tray	Pull out to remove misfed originals.	
6	Exit area	Originals exit the machine here after copying.	
7	Document transport cover	Open to remove misfed originals.	
8	Document transport cover knob	Pull to open the document transport cover.	
9	Document glass	Place an original that you wish to scan face down here.	
10	Power switch	Press to turn the machine power on and off.	
11	Handles	Use to move the machine.	
12	Operation panel	Contains operation keys and the touch panel.	
13	Job separator tray (optional)	Print jobs and received faxes are delivered to this tray.	When the job separator tray installed.
14	Center tray	Finished copies are delivered to the center tray.	
15	Front cover	Open to remove paper misfeeds and perform machine maintenance.	
16	Paper trays	Each tray holds 500 sheets of copy paper.	
17	Upper right side cover	Open to remove misfeeds when an optional job separator tray kit or a optional finisher is installed.	
18	Side cover	Open to remove misfeeds.	
19	Side cover handle	Pull to open the side cover.	
20	Bypass tray paper guides	Adjust to the width of the paper.	
21	Bypass tray	Regular paper and special paper (such as transparency film) can be fed from the bypass tray.	
22	Bypass tray extension	Pull out the bypass tray extension before placing paper in the bypass tray.	

B. Internal structure



No.	Name	Function/Operation			
1	Toner cartridge lock release lever	Use to unlock the toner cartridge.			
2	Toner cartridge	Contains toner.			
3	Roller rotating knob	Turn to remove misfed paper.			
4	Photoconductive drum	Copy images are formed on the photoconductive drum.			
5	Fusing unit release levers	To remove a paper misfeed in the fusing unit, push up on these levers and remove the paper.			
6	Fusing unit paper guide	Open to remove misfed paper.			

C. Operation panel



No.	Name	Function/Operation	Note
1	Touch panel	The machine status, messages and touch keys are displayed on the panel. The display will show the status of printing, copying or network scanning according to the mode that is selected.	
2	Mode select keys and indicators	Use to change modes and the corresponding display on the touch panel.	
	[COPY] key	Press to select copy mode.	
	[PRINT] key/ONLINE indicator/	[PRINT] key: Press to select print mode.	
	DATA indicator	ONLINE indicator: Print jobs can be received when this indicator is lit.	
		DATA indicator: A print job is in memory. The indicator lights steadily while	
		the job is held in memory, and blinks while the job is printed.	
	[SCAN] key/DATA indicator	[SCAN] key: Press to select network scan mode when the network scanner	When the network
		option is installed.	scanner option is
		DATA indicator: Lights steadily or blinks while a scanned image is being sent.	installed.
	[FAX] key/LINE indicator/	[FAX] key: Press to select fax mode when the fax function is installed.	When the fax function
	DATA indicator	LINE indicator: This lights up while faxes are being sent or received.	is installed.
		DATA indicator: Blinks when a fax has been received to memory and lights	
		steadily when a fax is waiting in memory for transmission.	
3	[JOB STATUS] key	Press to display the current job status.	

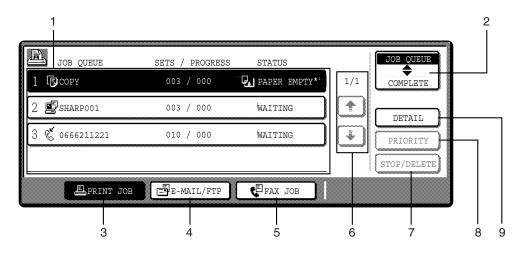
No.	Name	Function/Operation	Note
4	[CUSTOM SETTINGS] key	Use to adjust various settings of the machine including the contrast of the touch panel and key operator programs.	
5	Numeric keys	Use to enter numeric values for various settings.	
6	[ACC.#-C] key	When auditing mode is enabled, press this key after finishing a job to return the	
		machine to account number entry standby.	
7 [#/P] key Use this key to execute a job program in copy mode. The key is a		Use this key to execute a job program in copy mode. The key is also used to	
		dial in fax mode.	
8	[CLEAR] key	Press to clear a copy number setting or cancel a job.	
9	[START] key	Press in copy mode, scanner mode, or fax mode to begin copying, network	
		scanning, or faxing.	
10	[INTERRUPT] key	Use to perform an interrupt copy job.	
11	[CLEAR ALL] key	Resets the settings to the initial settings.	

D. Job status screen

This screen appears when the [JOB STATUS] key on the operation panel is pressed.

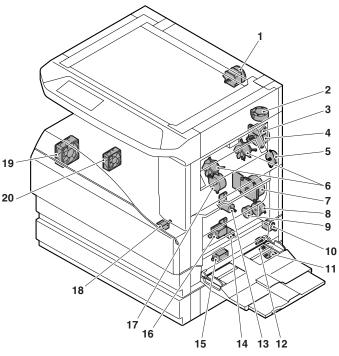
A job list showing the current job and the stored jobs or a list showing completed jobs can be displayed.

The contents of jobs can be viewed and jobs can be deleted from the queue. The following screen shows the job queue for print jobs.



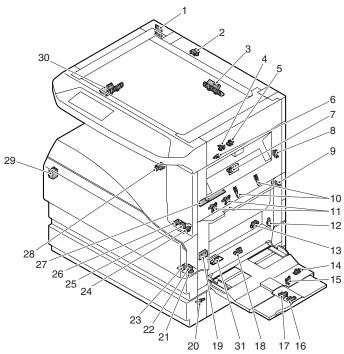
No.	Name	Function/Operation	Note
1	Job list	Shows stored jobs and the job currently being executed. Touch one of keys 3 to 5 in the above illustration to select the type of job. The icon next to each job name indicates the mode of the job as follows: Copy mode Printer mode Network scanner mode Fax mode (Send jobs) Fax mode (Receive jobs) The jobs in the job list appear in the form of keys. To give priority to a job or pause or delete a job, touch the key of the job and then use the key described in 7 or 8.	* 1:"PAPER EMPTY" in the job status display "PAPER EMPTY" in the job status display indicates that the machine is out of the specified size of paper. Add the specified size of paper is not available and you are in printer mode, another size of paper can be loaded in the bypass tray to allow printing to take place.
2	Mode switching keys	Use to select the job list mode: "JOB QUEUE" (Stored/currently executing jobs) or "COMPLETE" (Finished jobs). "JOB QUEUE": Shows jobs that have been stored and the job that is currently being executed. "COMPLETE": Shows the jobs that have been finished. Note that copy jobs do not appear in this list (print job only).	
3	[PRINT JOB] key	Use to view the list of output jobs for all modes (print, copy, and fax).	
4	[E-MAIL/FTP] key	Displays a network scanner job.	When the network scanner function is installed.
5	[FAX JOB] key	This displays stored fax jobs and the fax job currently being executed.	When the fax function is installed.
6	Display switching keys	Use to change the page of the displayed job list.	
7	[STOP/DELETE] key	Use to pause or delete a job currently being executed, or to delete a stored job. Copy jobs and received faxes cannot be paused or deleted with this key. Copy jobs can be canceled by pressing the [CLEAR] key or [CLEAR ALL] key.	
8	[PRIORITY] key	Select a reserved job in the [Reserve/Execution] job list and touch this key, and the selected job will be executed by interrupting the current execution of the other job.	
9	[DETAIL] key	Shows information on the selected job. This cannot be used for a received fax and copy.	

E. Motor, Solenoid, Clutch



No.	Name	Code	Function and operation
1	Mirror motor	MIRM	Optical mirror base drive
2	Shifter motor	SFTM	Shifter drive
3	Paper exit gate switching solenoid	OGS	Paper exit gate switcher
4	Duplex motor	DPXM	Duplex paper switching and exit motor
5	DUP-2 motor		Reverse pass for paper transport
6	Cooling fan	VFM	Cools the inside of the unit.
7	Main motor	MM	Main drive
8	PS clutch	RRC	Main unit paper feed
9	Paper feed clutch	CPFS1	Paper feed roller drive
10	Manual paper feed solenoid	MPFS	Manual paper feed solenoid
11	Paper feed transfer clutch	TRC2	Paper feed transfer clutch
12	2nd cassette paper feed clutch	CPFS2	
13	Cassette lift-up motor	LUM1	Cassette paper lift-up
14	Cassette lift-up motor	LUM2	Cassette paper lift-up
15	2nd cassette paper feed solenoid	CPFC2	Solenoid for the paper feed from the cassette
16	Paper feed solenoid	CPFC1	Solenoid for the paper feed from the cassette
17	Toner motor	TM	Toner supply
18	Separation pawl solenoid	PSPS	Separation pawl operation solenoid
19	Exhaust fan motor	DCFM	Cools the inside of the unit.
20	Intake fan motor	DCFM2	

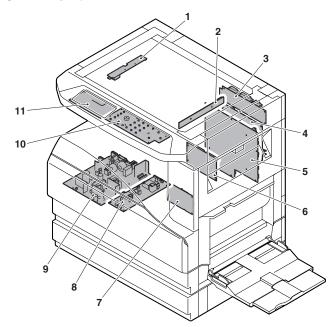
F. Sensor



No.	Name	Code	Function and operation
1	Mirror home position sensor	MHPS	Mirror (scanner) home position detection
2	Document cover	ocsw	Document cover
_	sensor		open/close detection
3	Document size sensor	DSIN3	Document size detection (Inch series: PD3, 4) (AB series: PD4, 5)
4	2nd paper exit sensor	POD2	2nd paper exit detection
5	2nd paper exit full detection sensor	TOPF	2nd paper exit section full detection
6	Right cabinet door switch	DSWR0	Right cabinet door open/close detection
7	1st paper exit sensor	POD1	1st paper exit detection
8	Shifter home position sensor	SFTHP	Shifter home position sensor detection
9	Paper exit sensor (DUP side)	PPD2	Paper exit detection
10	Thermistor		Fusing temperature detection
11	Thermostat		Abnormal high temperature detection in the fusing section
12	1st cassette (paper tray) detection	CD1	1st cassette (paper tray) empty detection
13	Manual feed paper entry sensor	PPD1L	Sensor of paper entry from the manual paper feed tray, the 2nd/multi-stage desk, or the DUP
14	Manual paper feed tray empty sensor 2	MPLS2	Manual feed tray position detection
15	Manual paper feed	MPLS1	Manual feed tray
	tray empty sensor 1		position detection
16	Manual feed length	MPLD1	Manual feed paper
	detection sensor 1	MD: 5.5	length detection
17	Manual feed length detection sensor 2	MPLD2	Manual feed paper
	uetection sensor 2		length detection

No.	Name	Code	Function and operation
18	Manual feed paper empty sensor	MPED	Manual feed paper empty detection
19	Door switch	DSWR1	Front door and side door open/close detection
20	2nd right door switch	DSWR2	Side door open/close detection
21	2nd cassette paper pass sensor	PFD2	2nd cassette paper pass
22	2nd cassette paper upper limit detection sensor	LUD2	2nd cassette paper upper limit detection
23	2nd cassette paper empty sensor	PED2	2nd cassette paper empty detection
24	1st cassette paper pass sensor	PPD1H	1st cassette paper pass
25	1st cassette paper upper limit detection sensor	LUD1	1st cassette paper upper limit detection
26	1st cassette paper empty sensor	PED1	1st cassette paper empty detection
27	Toner sensor		Toner density detection
28	Center tray paper YES/NO sensor	LOEMP	Center tray paper YES/NO detection
29	Main switch	PSSW	Main power switch
30	Original size sensor	DSIN0	Document size detection (Inch series: PD1, 2) (AB series: PD1 – 3)
31	Reverse pass paper detection sensor	DUP2	Reverse pass detection

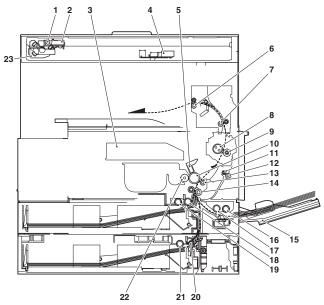
G. PWB unit



No.	Name	Function and operation
1	Inverter PWB	Copy lamp control
2	CCD PWB	For image scanning (read)
3	Option connector PWB	
4	IMC PWB	Image process
5	MCU PWB	Main unit control
6	Mother board	Connection with FAX PWB and
		PCL PWB
7	Tray interface PWB	2nd tray control
8	DC power supply PWB	DC voltage control

No.	Name	Function and operation
9	High voltage PWB	High voltage control
10	KEY PWB	
11	OPU PWB	Operation panel control

H. Section



	22	21 20
No.	Name	Function and operation
1	Copy lamp	Image radiation lamp
2	Copy lamp unit	Operates in synchronization with 2nd/3rd mirror unit to radiate documents sequentially.
3	LSU unit	Converts image signals into laser beams to write on the dum.
4	Lens unit	Reads images with the lens and the CCD.
5	MC holder unit	Supplies negative charges evenly on the drum.
6	Paper exit roller	Paper exit roller
7	Transport roller	Paper transport roller
8	Upper heat roller	Fuses toner on paper. (with the Teflon roller)
9	Lower heat roller	Fuses toner on paper. (with the silicone rubber roller)
10	Drum unit	Forms images.
11	DUP transport follower roller	Duplex paper transport
12	DUP transport roller	Duplex paper transport
13	Transport roller	Transfer images on the drum onto paper.
14	Resist roller	Synchronize the paper lead edge with the image lead edge.
15	Manual feed tray	Manual feed paper tray
16	Manual paper feed roller	Picks up papers in manual paper feed port.
17	Manual feed transport roller	Transports paper from the manual paper feed port.
18	1st cassette pick-up roller	Picks up paper from the cassette.
19	1st cassette paper feed roller	Transports the picked up paper to RESIST section.
20	2nd cassette pick-up roller	Picks up paper from the cassette.
21	2nd cassette paper feed roller	Transports the picked up paper to RESIST section.
22	MG roller	Puts toner on the OPC drum.
23	2nd/3rd mirror unit	Reflects the images from the copy lamp unit to the lens unit.

[7] ADJUSTMENTS, SETTING

1. List of adjustment items

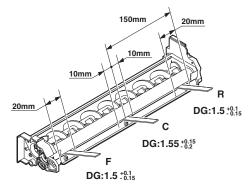
	Section		Adjustment item		Adjustment procedure/SIM No.
Α	Process section	(1)	Developing doctor gap adjustment		Developing doctor gap adjustment
		(2)	MG roller main pole position adjustment		MG roller main pole position adjustment
		(3)	Developing bias voltage adjustment		SIM8-1
		(4)	Grid bias voltage adjustment (High mode)		SIM8-2
		(5)	Grid bias voltage adjustment (Low mode)		SIM8-3
В	Mechanism section	(1)	Print start position adjustment		SIM50-5
		(2)	SPF (RSPF) image lead edge position adjustment		SIM50-6
		(3)	Rear edge void adjustment		SIM50-1-6
		(4)	Paper off center adjustment		SIM50-10
		(5)	Left edge void area adjustment		SIM50-1-8
		(6)	Main scanning direction (FR direction) distortion		No. 2/3 mirror base unit installing position
			balance adjustment		adjustment
					Copy lamp unit installing position adjustment
		(7)	Sub scanning direction (scanning direction)		Winding pulley position adjustment
			distortion adjustment		
		(8)	Main scanning direction (FR direction) distortion		Rail height adjustment
			adjustment		
		(9)	Main scanning direction (FR direction)		SIM48-1-1
			magnification ratio adjustment		
		(10)	Sub scanning direction (scanning direction)	а	OC mode in copying (SIM 48-1-2)
			magnification ratio adjustment	b	RSPF sub scanning direction magnification ratio
					(SIM48-1-3, 48-1-4)
		(11)	Off center adjustment (RSPF mode)		SIM50-12
		(12)	OC (RSPF) open/close detection position		SIM41-3
			adjustment		
		(13)	,		SIM41-2, 41-4
		(14)	RSPF white correction pixel position adjustment		SIM63-7
			(required in an RSPF model when replacing the		
			lens unit)	<u> </u>	
		(15)	RSPF scan position auto adjustment		SIM53-8
С	Image density	(1)	Copy mode		SIM46-2
	(exposure) adjustment				

2. Copier adjustment

A. Process section

(1) Developing doctor gap adjustment

- 1) Loosen the developing doctor fixing screw A.
- Insert a thickness gauge of 1.5mm to the three positions at 20mm and 150mm from the both ends of the developing doctor as shown.



- 3) Tighten the developing doctor fixing screw.
- Check the clearance of the developing doctor. If it is within the specified range, then fix the doctor fixing screw with screw lock.
- * When inserting a thickness gauge, be careful not to scratch the developing doctor and the MG roller.

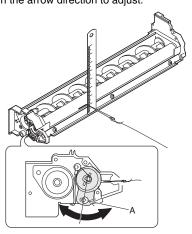
<Adjustment specification>

Developing doctor gap

F/R both ends (20mm from the both ends): $1.5^{+0.1 mm}_{-0.15 mm}$ C (Center)(150mm from the both ends): $1.55^{+0.15 mm}_{-0.2 mm}$

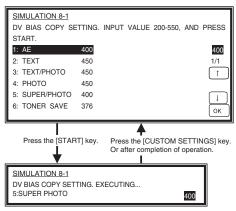
(2) MG roller main pole position adjustment

- 1) Put the developing unit on a flat surface.
- 2) Tie a needle or pin on a string.
- Hold the string and bring the needle close to the MG roller horizontally. (Do not use paper clip, which is too heavy to make a correct adjustment.) (Put the developing unit horizontally for this adjustment.)
- 4) Do not bring the needle into contact with the MG roller, but bring it to a position 2 or 3mm apart from the MG roller. Mark the point on the MG roller which is on the extension line from the needle tip.
- 5) Measure the distance from the marking position to the top of the doctor plate of the developing unit to insure that it is 18mm. If the distance is not within the specified range, loosen the fixing screw A of the main pole adjustment plate, and move the adjustment plate in the arrow direction to adjust.



(3) Developing bias voltage adjustment (SIM 8-1)

1) Execute SIM 8-1.



- Touch the exposure mode to be changed.
 The current set value is displayed.
- 3) Enter the set value with the 10-key.
- 4) Press the [START] key.

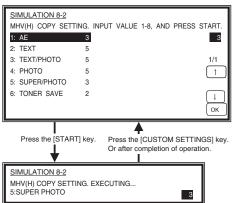
Output is made with the entered value, and the display returns to the original state.

<Adjustment specification>

Item		Content	Installation range	Default
1	AE	AE	200-550	400 (-400V)
2	TEXT	Character		450 (-450V)
3	TEXT/PHOTO	Character/Photo		450 (-450V)
4	PHOTO	Photo		450 (-450V)
5	SUPER/PHOTO	Super photo		400 (-400V)
6	TONER SAVE	Toner save		376 (-376V)

(4) Grid bias voltage adjustment (High mode) (SIM 8-2)

1) Execute SIM 8-2.



- Touch the exposure mode to be changed.
 The current set value is displayed.
- 3) Enter the set value with the 10-key.
- 4) Press the [START] key.

Output is made with the entered value for 30sec, and the display returns to the original state.

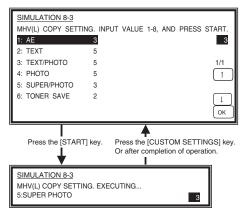
<Adjustment specification>

	Item	Content	Setting range	Default
1	AE	AE	1-8	3 (-530V)
2	TEXT	Character		5 (-580V)
3	TEXT/PHOTO	Character/Photo		5 (-580V)
4	PHOTO	Photo		5 (-580V)
5	SUPER/PHOTO	Super photo		3 (-530V)
6	TONER SAVE	Toner save		2 (-505V)

Min. unit: -25V increment

(5) Grid bias voltage adjustment (Low mode) (SIM 8-3)

1) Execute SIM 8-3.



- Touch the exposure mode to be changed.
 The current set value is highlighted.
- 3) Enter the set value with the 10-key.
- 4) Press the [START] key.

Output is made with the entered value for 30sec, and the display returns to the original state.

<Adjustment specification>

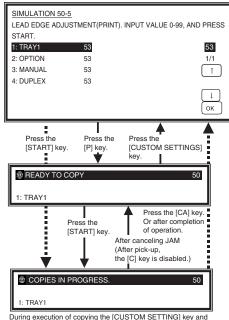
	Item	Content	Setting range	Default
1	AE	AE	1-8	3 (-400V)
2	TEXT	Character		5 (-450V)
3	TEXT/PHOTO	Character/Photo		5 (-450V)
4	PHOTO	Photo		5 (-450V)
5	SUPER/PHOTO	Super photo		3 (-400V)
6	TONER SAVE	Toner save		2 (-375V)

Min. unit: -25V increment

B. Mechanism section

(1) Print start position adjustment

1) Execute SIM 50-5.



During execution of copying the [CUSTOM SETTING] key and the [INTERRUPT] key are disabled.

- Touch the item to be adjusted.
 The item and the currently set value are highlighted.
- Press the [P] key.

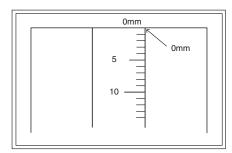
 The display is shifted to the copy menu.
- Select the paper feed tray, the print density, and the duplex mode. Enter the adjustment value with the 10-key.

5) Press the [START] key. Copying is started.

	Item	Content	Setting range	Default
1	TRAY1	1st cassette	0-99	53
2	OPTION	Option cassette	1-99	
3	MANUAL	Manual feed		
4	DUPLEX	Back print		

- 6) Measure the distance H between the paper lead edge and the image print start position. Set the image print start position set value again.
 - 1 step of the set value corresponds to about 0.127mm shift.
 - Calculate the set value from the formula below.

99 - H/0.127 (mm) = Image print start position set value <H: Print start position measurement value (mm)>



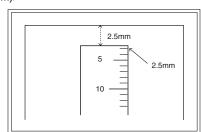
* Fit the print edge with the paper edge, and perform the lead edge adjustment.

Example: 99 - 5/0.127 = 99 - 39.4 = about 59

Note: FIf the set value is not obtained from the above formula, perform the fine adjustment.

- 7) Execute SIM 50-1-2 to adjust the main cassette lead edge void.
 - 1 step of the set value corresponds to about 0.127mm shift.
 - Calculate the set value from the formula below.

B/0.127 (mm) = Lead edge void adjustment value <B: Lead edge void (mm)>



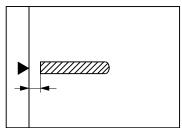
Example: When setting the lead edge void to 2.5mm: 2.5 /0.127 = about 20

<Adjustment specification>

Adjustment mode	SIM	Set value	Spec value	Setting range
Main cassette lead edge void	50-1- 2	B/0.127	Lead edge void: 1 – 4mm	1 – 99
Print start position	50-5	99 – H/0.127	Image loss: 3mm or less	

(2) SPF (RSPF) image lead edge position adjustment

1) Set a scale on the OC table as shown below.



Note: Since the printed copy is used as a test chart, put the scale in paralleled with the edge lines.

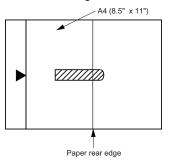
- Make a copy, then use the copy output as an original to make an SPF (RSPF) copy again.
- Check the copy output. If necessary, perform the following adjustment procedures.
- 4) Execute SIM 50-6.
- Set the SPF (RSPF) lead edge position set value so that the same image is obtained as that obtained in the previous OC image lead edge position adjustment.

<Adjustment specification>

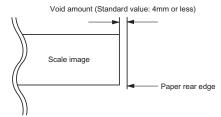
Α	djustment mode	SIM	Set value	Spec value	Setting range
(F in	PF RSPF) nage lead dge osition	50-6	1 step: 0.127mm shift	Lead edge void: 1 – 4mm Image loss: 3mm or less	1 – 99

(3) Rear edge void adjustment

1) Set a scale as shown in the figure below.



- Set the document size to A4 (8.5" x 11"), and make a copy at 100%.
- 3) If an adjustment is required, follow the procedures below.



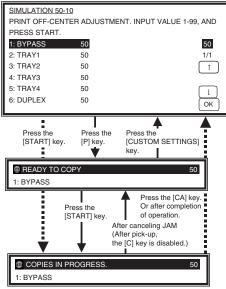
- Execute SIM 50-1 and set the density mode to DEN-B. The currently set adjustment value is displayed.
- Enter the set value and press the start key.
 The correction value is stored and a copy is made.

<Adjustment specification>

Adjustment	SIM	Set value	Spec	Setting
mode	Olivi		value	range
Rear edge	50-1-6	1 step: 0.127mm	4mm or	1 – 99
void		shift	less	

(4) Paper off center adjustment

- 1) Set a test chart (UKOG-0089CSZZ) on the document table.
- 2) Select a paper feed port and make a copy.
- 3) Execute SIM 50-10.



During execution of copying the [CUSTOM SETTING] key and the [INTERRUPT] key are disabled.

- Touch the item to be adjusted.
 The item and the currently set value are highlighted.
- Press the [START] key.
 The display is shifted to the copy menu.
- 6) Select the paper feed tray and the print density. Enter the adjustment value with the 10-key.
- Press the [START] key. Copying is started.

	Item	Content	Setting range	Default
1	BYPASS	Manual feed	1-99	50
2	TRAY1	1st cassette		
3	TRAY2	2nd cassette		
4	TRAY3	3rd cassette		
5	TRAY4	4th cassette		
6	DUPLEX	Back print		

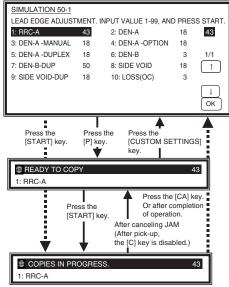
<Adjustment specification>

Adjustment mode	SIM	Set value	Spec value	Setting range
Paper off	50-10	Add 1: 0.127mm	Single:	1 – 99
center	-2	shift to R side.	Center	
		Reduce 1:	±2.0mm	
Second	50-10	0.127mm shift to L	Duplex:	
printsurface	-6	side.	Center	
off-center			±2.5mm	

(5) Left edge void area adjustment

Note: Before performing this adjustment, be sure to check that the paper off center adjustment (SIM 50-10) is completed.

1) Execute SIM 50-1.



During execution of copying the [CUSTOM SETTING] key and the [INTERRUPT] key are disabled.

- 2) Note down the adjustment value of SIM 50-5 (Items 1, 2, 3, 4), and change the value to 99.
- Set SIM 50-1 (Items 2, 3, 4, 5) to 1. (By setting to 1, there is no void.)
- Place a chart with a clear lead edge (or a ruler) on the OC document table.
- Use SIM 50-1 (Item 1) to execute test print. Check the print out and adjust so that the lead edge image is printed. (1 – 99: About 0.127mm/Step)
- 6) Reset the adjustment values of SIM 50-5 (Items 1, 2, 3, 4) to the original values, and execute test print. Check the print out and adjust so that the lead edge image is printed on the lead edge of paper. (1 99: About 0.127mm/Step).
- 7) Adjust SIM 50-1 (Items 2, 3, 4, 5) so that the lead edge void on the print out is the specified value. (1 99: About 0.127mm/Step)
- 8) Similar to procedure 7, adjust SIM 50-1 (Item 6, 7) so that the rear edge void is the specified value. (1 99: About 0.127mm/Step)
- 9) Similar to procedure 7, adjust SIM 50-1 (Item 8, 9) so that the left edge void is the specified value. (1 99: About 0.127mm/Step)
- 10) Make an enlargement copy (400%), and check that there is no shade of the cabinet printed at the lead edge.
- 11) If there is a shade printed at the lead edge in procedure 9, adjust SIM 50-1 (Item 10). (1 5: About 0.677mm)
 - * If there is no problem, set to 3.

Item		Content	Setting range	Default
1	RRC-A	Original scan start position adjustment Lead edge position adjustment value (OC)	1-99	43
2	DEN-A	Lead edge cancel adjustment (Main cassette)	1-99	18
3	DEN-A-MANUAL	Lead edge cancel adjustment (Manual feed cassette)	1-99	18
4	DEN-A-OPTION	Lead edge cancel adjustment (Option cassette)	1-99	18
5	DEN-A-DUPLEX	Lead edge cancel adjustment (back of the machine)	1-99	18
6	DEN-B	Rear edge void adjustment	1-99	30

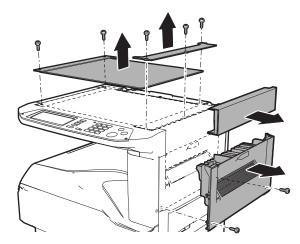
Item		Content	Setting range	Default
7	DEN-B-DUP	Rear edge void adjustment (Duplex)	1-99	50
8	SIDE VOID	Left edge void adjustment (First print surface)	1-99	18
9	SIDE VOID-DUP	Left edge void adjustment (Duplex)	1-99	18
10	LOSS(OC)	Image loss amount adjustment (Lead edge image loss set value) (OC)	1-5	3

<Adjustment specification>

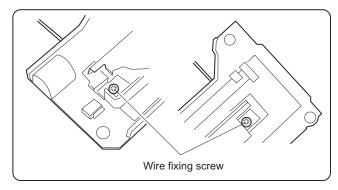
Adjustment	SIM	SIM Set value	Spec	Setting
mode			value	range
Left edge void	50-1-	1 step: 0.127mm	0.5 – 4mm	1 – 99
	8	shift		

(6) Main scanning direction (FR direction) distortion balance adjustment

 Remove the OC glass, the right cabinet and the upper right side cover.

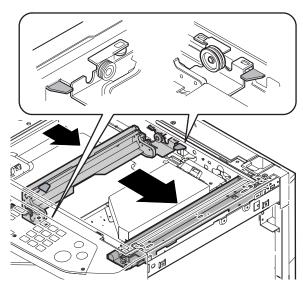


2) Loosen the copy lamp unit wire fixing screw.

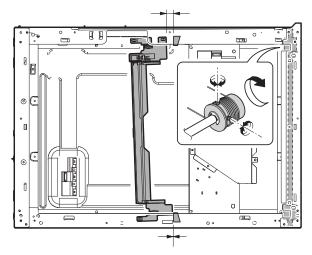


3) Manually turn the mirror base drive pulley and bring No. 2/3 mirror base unit into contact with the positioning plate.

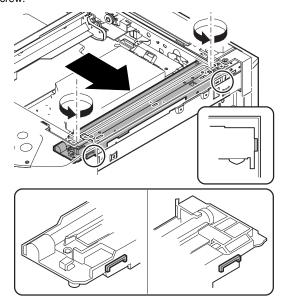
At that time, if the front frame side and the rear frame side of No. 2/3 mirror base unit are brought into contact with the positioning plate at the same time, the mirror base unit parallelism is proper. If one of them is in contact with the positioning plate, perform the adjustment of 4).



- 4) Loosen the set screw of the scanner drive pulley which is not in contact with No. 2/3 mirror base unit positioning plate.
- 5) Without moving the scanner drive pulley shaft, manually turn the scanner drive pulley until the positioning plate is brought into contact with No. 2/3 mirror base unit, then fix the scanner drive pulley.



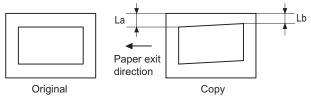
6) Put No. 2/3 mirror base unit on the positioning plate again, push the projections on the front frame side and the rear frame side of the copy lamp unit to the corner frame, and tighten the wire fixing screw.



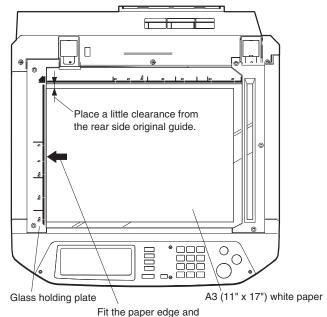
(7) Sub scanning direction (scanning direction) distortion adjustment (Winding pulley position adjustment)

This adjustment must be performed in the following cases:

- · When the mirror base drive wire is replaced.
- When the lamp unit, or No. 2/3 mirror holder is replaced.
- · When a copy as shown is made.

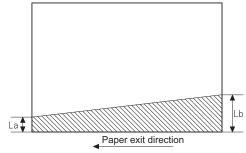


 Set A3 (11" x 17") white paper on the original table as shown below.



the glass holding plate edge.

- 2) Open the original cover and make a normal (100%) copy.
- Measure the width of the black background at the lead edge and at the rear edge.



La: Lead edge black background width Lb: Rear edge black background width

If the width (La) of the black background at the lead edge is equal that (Lb) at the rear edge, there is no need to execute the following procedures of 4) - 7).

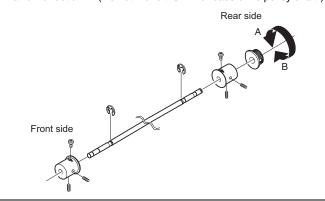
 Loosen the mirror base drive pulley fixing screw on the front frame side or on the rear frame side.

When La < Lb

Turn the mirror base drive pulley on the front frame side in the arrow direction A. (Do not move the mirror base drive pulley shaft.)

When La > Lb

Turn the mirror base drive pulley on the rear frame side in the arrow direction A. (Do not move the mirror base drive pulley shaft.)



5) Tighten the fixing screw of the mirror base drive pulley.

<Adjustment specification>

La = Lb

6) Execute the main scanning direction (FR) distortion balance adjustment previously described in 2) again.

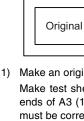
(8) Main scanning direction (FR direction) distortion balance adjustment (Rail height adjustment)

When there is no skew copy in the mirror base scanning direction and there is no horizontal error (right angle to the scanning direction), the adjustment can be made by adjusting the No. 2/3 mirror base unit rail height.

Before performing this adjustment, be sure to perform the horizontal image distortion adjustment in the laser scanner section.

This adjustment must be performed in the following cases:

- · When the mirror base wire is replaced.
- When the copy lamp unit and no. 2/3 mirror unit are replaced.
- · When the mirror unit rail is replaced and moved.
- · When a following copy is made.

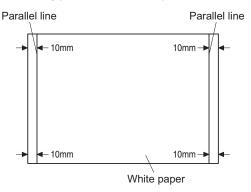




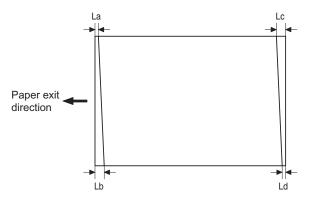


1) Make an original for the adjustment.

Make test sheet by drawing parallel lines at 10mm from the both ends of A3 (11" x 17") white paper as shown below. (These lines must be correctly parallel to each other.)

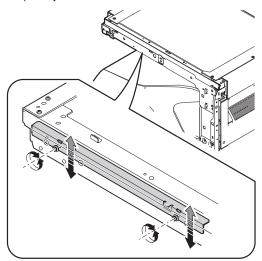


 Make a normal (100%) copy of the test sheet on A3 (11" x 17") paper. (Fit the paper edge and the glass holding plate edge.) Measure the distances (La, Lb, Lc, Ld) at the four corners as shown below.



When La = Lb and Lc = Ld, no need to perform the procedures 4) and 5).

 Move the mirror base B rail position up and down (in the arrow direction) to adjust.



• When La > Lb

Shift the mirror base B rail upward by the half of the difference of La–Lb.

• When La < Lb

Shift the mirror base B rail downward by the half of the difference of Lb-La.

Example: When La = 12mm and Lb = 9mm, shift the mirror base B rail upward by 1.5mm.

• When Lc >Ld

Shift the mirror base B rail downward by the half of the difference of Lc-Ld.

• When Lc < Ld

When Lc < Ld, move the mirror base B on the paper feed side upward.

When moving the mirror base rail, hold the mirror base rail with your hand.

<Adjustment specification>

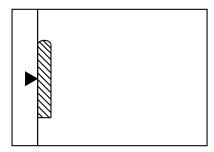
La = Lb, Lc = Ld

- 5) After completion of adjustment, manually turn the mirror base drive pulley, scan the mirror base A and mirror base B fully, and check that the mirror bases are not in contact with each other.
- * If the mirror base rail is moved extremely, the mirror base may be in contact with the frame or the original glass. Be careful to avoid this.

(9) Main scanning direction (FR direction) magnification ratio adjustment (SIM 48-1)

Note: Before performing this adjustment, be sure to check that the CCD unit is properly installed.

1) Put a scale on the original table as shown below.



- 2) Execute SIM 48-1.
- After warm-up, shading is performed and the current set value of the main scanning direction magnification ratio is displayed on the display section in 2 digits.
- Manual correction mode (SIM48-1-1)
 Enter the set value and press the start key.
 The correction value is stored and a copy is made.

<Adjustment specification>

Note: A judgment must be made with 200mm width, and must not be made with 100mm width.

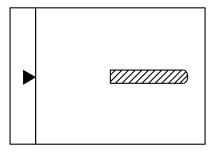
Adjustment mode	Spec value	SIM	Set value	Setting range
Main scanning direction	At normal: ±1.0%	48- 1-1	Add 1: 0.1% increase	1 – 99
magnification	±1.0%	1-1	Reduce 1: 0.1%	
ratio			decrease	

(10) Sub scanning direction (scanning direction) magnification ratio adjustment (SIM 48-1-2)

a. OC mode in copying

Note: Execute the procedure after completion of SIM 48-1-2.

 Put a scale on the original table as shown below, and make a normal (100%) copy.



- Compare the scale image and the actual scale.
 If necessary, perform the following adjustment procedures.
- 3) Execute SIM 48-1-2.
- Enter the set value and press the start key.
 The set value is stored and a copy is made.

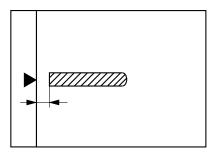
<Adjustment specification>

Adjustment mode	Spec value	SIM	Set value	Setting range
Sub scanning At normal:		48-1-	Add 1:	1 – 99
direction	±1.0%	2	0.05% increase	
magnification			Reduce 1:	
ratio (OC mode)			0.05% decrease	

b. RSPF sub scanning direction magnification ratio

Note: Before performing this adjustment, be sure to check that the CCD unit is properly installed and that OC mode adjustment in copying has been completed.

 Put a scale on the original table as shown below, and make a normal (100%) copy to make a test chart.



Note: Since the printed copy is used as a test chart, put the scale in parallel with the front side edge of the glass.

- 2) Set the test chart on the RSPF and make a normal (100%) copy.
- Compare the scale image and the actual image.
 If necessary, perform the following adjustment procedures.
- 4) Execute SIM 48-1-3.
- 5) After warm-up, shading is performed.

The current front surface sub scanning direction magnification ratio correction value is displayed in two digits on the display section.

6) Enter the set value and press the start key. The set value is stored and a copy is made.

7) Execute SIM 48-1-4.

The current back surface sub scanning direction magnification ratio is displayed in two digits on the display section.

Enter the set value and press the start key.
 The set value is stored and a copy is made.

<Adjustment specification>

Adjustment mode	Spec value	SIM	Set value	Setting range
Sub scanning direction	At normal: ±1.0%	48-1-3 48-1-4	Add 1: 0.05% increase	1 – 99
magnification ratio (SPF mode)	21.070	10 1 1	Reduce 1: 0.05% decrease	

(11) Off center adjustment (RSPF mode)

Note: Before performing this adjustment, be sure to check that the paper off center is properly adjusted.

- 1) Place the center position adjustment test chart (sheet with a straight line in the scan direction at the center) on the RSPF.
- 2) Make a normal copy from the manual paper feed tray, and check the printed copy with the test chart.

If any adjustment is required, perform the following procedure.

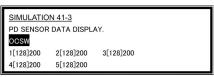
- 3) Execute SIM 50-12.
- After warm-up, shading is performed and the current set value of the off center adjustment is displayed on the display section in 2 digits.
- 5) Enter the set value and press the start key. The set value is stored and a copy is made.

<Adjustment specification>

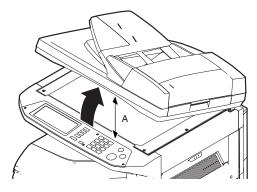
•	•			
Adjustment mode	Spec value	SIM	Set value	Setting range
Original off	Single: Center	50-12	Add 1: 0.1mm	1 – 99
center mode	± 3.0mm		shift to R side	
(RSPF	Duplex: Center		Reduce 1: 0.1mm	
mode)	±3.5mm		shift to L side	

(12) OC (SPF) open/close detection position adjustment

- 1) Execute SIM 41-3.
- Gradually close the OC (SPF) from the full open position, and measure distance A when the display on the operation panel changes. (See the figure below.)



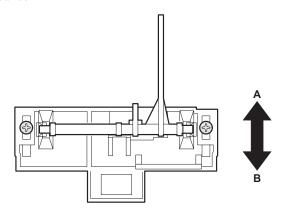
Distance A = Table glass top - OC (RSPF) handle rib



<Adjustment specification>

OC (SPF) open/close position A: 125 - 225mm

- If the distance is outside the specified range, adjust the open/close sensor attachment plate position as shown below.
- Distance < 125mm: Shift toward A.
 Distance > 225mm: Shift toward B.



(13) Original sensor adjustment (SIM 41-2, 41-4)

- Set A3 (11" x 17") paper on the OC table. (Keep the SPF (OC cover) open.)
- 2) Execute SIM 41-2.
- Keep A=125mm, and execute SIM 41-4. (Do not put paper on the table.)
- 4) Check the reaction with SIM 41-1.

(14) RSPF white correction pixel position adjustment (required in an RSPF model when replacing the lens unit) (SIM63-7)

- 1) Fully open the RSPF.
- 2) Execute SIM 63-7.
- When the operation panel displays "COMPLETE," the adjustment is completed.
- If the operation panel displays "ERROR," perform the following measures.
- When the display is 0:

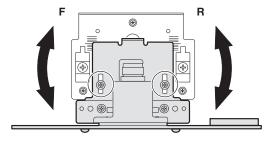
Check that the SPF is open.

Check that the lamp is ON. (If the lamp is OFF, check the MCU connector.)

Check that the CCD harness is properly inserted into the MCU connector.

- When the display is 281 or above:
 - 1) Remove the table glass.
 - 2) Remove the dark box.

- Slide the lens unit toward the front side and attach it, then execute SIM.
- · When the display is 143 or below:
 - 1) Remove the table glass.
 - 2) Remove the dark box.
 - Slide the lens unit toward the rear side and attach it, then execute SIM.



- When the lens unit is moved, execute the OC main scanning magnification ratio auto adjustment, SIM 48-1-1.
- * This adjustment is basically O.K. with SIM 63-7.

(15) RSPF scan position auto adjustment

[Function]

Used to adjust the RSPF scan position automatically.

[Operation]

- With the RSPF or the OC cover open, place a chart of black background on the OC glass. (In the RSPF standard model, the RSPF glass surface is included.)
- Use a black chart (UKOG-0011QSZZ) or prepare a chart as shown below.

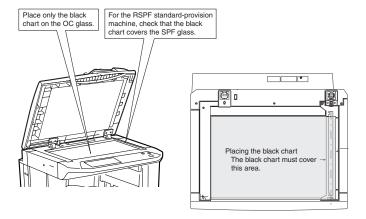
Chart size: 310 x 470, prepared with cutting sheet No. 791 (Black) or an equivalent one.

Reason: To prevent erroneous detection by disturbing light of a fluorescent lamp, etc.

Enter SIM53-08, and press [START] button.
 Outline of SIM: The optical unit is shifted to recognize the boundary between the OC glass and the RSPF glass cover.
 With the same position as the reference, the RSPF scan position is automatically adjusted.

<Note>

- After completion of the RSPF scan position auto adjustment, the SPF lead edge adjustment must be executed. (Both surfaces)
- There must be no other sheet than the black chart on the glass surface.
- Especially when in RSPF scan, the center area is scanned in the main scan direction. Be careful to prevent external light from entering the scan area.
- Check that the lead edge is not shifted. (Both surfaces)
 (If the original lead edge adjustment has been made properly, even when the scan position is shifted, it is followed automatically.)



- Change the adjustment value of the RSPF scan end position. (Change the adjustment value of SIM50-6-3 from 50 to 36.)
 - Change the number of steps for Pin off scan end position from 1,014 to 986.
 - Be sure to execute this adjustment because an image may be cut off during FAX transmission though copying is normally performed.
- Change the initial value of the RSPF exposure adjustment (SIM46-20) from 50 to 53.

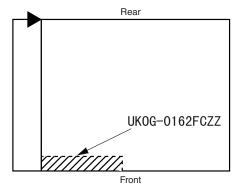
(For the CCD exposure adjustment with RSPF, use the value of the OC adjustment value +3.)

There are suffixes of -1 SPF and -2 RSPF. Change each of them.

C. Image density (exposure) adjustment

(1) Copy mode (SIM46-2)

 Set a test chart (UKOG-0162FCZZ) on the OC table as shown below.



- Place three or more sheets of A3 (11" x 17") paper on the test chart.
- 3) Execute SIM 46-2.
- After warm-up, shading is performed and the current set value of the density (exposure) level is displayed on the display section in 2 digits.
 - For mode selection, use the [10-key].
- Change the set value with the [10-key] to adjust the copy image density.
- 6) Make a copy and check that the specification below is satisfied.

Note: Place originals in the rear reference, and the test chart in the front reference when adjusting the exposure.

<Adjustment specification>

Aujustinent sp				Setting
Density mode	Exposure	Sharp Gray	Set value	"
=-	level	Chart output		range
AUTO	-	"3" is copied.	If too bright,	0 – 99
TEXT	1.0	"7" is copied.	increase the quantity displayed	
	3.0	"3" is copied.	on the copy	
	5.0	"2" is copied.	quantity display.	
TEXT/PHOTO	1.0	"6" is copied.	If too dark,	
	3.0	"3" is copied.	decrease the	
	5.0	"2" is copied.	quantity displayed	
PHOTO	1.0	"5" is copied.	on the copy	
	3.0	"3" is copied.	quantity display.	
	5.0	"2" is copied.		
SUPER PHOTO	1.0	"5" is copied.		
	3.0	"3" is copied.		
	5.0	"2" is copied.		
AE (TONER SAVE)	-	"3" is copied.		
TEXT (TONER	1.0	"7" is copied.		
SAVE)	3.0	"3" is copied.		
	5.0	"2" is copied.		
TEXT PHOTO	1.0	"6" is copied.		
(TONER SAVE)	3.0	"3" is copied.		
	5.0	"2" is copied.		

[8] SIMULATION

(Diagnostics, setup, adjustment value input, data display)

1. Outline and purpose

The simulation has the following functions to grasp the machine operating status, identify the trouble position and causes in an earlier stage, and make various setups and adjustments speedily for improving the serviceability of the machine.

- 1) Various adjustments
- 2) Setup of specifications and functions
- 3) Canceling troubles
- 4) Operation check
- 5) Various counters check, setup, and clear
- 6) Machine operating status (operation history) data check, clear
- 7) Transfer of various data (adjustments, setup, operations, counters)

The operating procedures and the displays differ depending on the form of the operation panel of the machine.

2. Code-type simulation

A. Operating procedures and operations

- * Entering the simulation mode
- #/P key (program) ON → Asterisk (*) key ON → CLEAR key ON →
 Asterisk (*) key ON → Ready for input of a main code of simulation
- 2) Entering a main code with the 10-key → START key ON
- 3) Entering a sub code with the 10-key \rightarrow START key ON
- 4) Select an item with the scroll key and the item key.
- The machine enters the mode corresponding to the selected item.
 Press START key to start the simulation operation.
 - To cancel the current simulation mode or to change the main code and the sub code, press the CUSTOM SETTINGS key.
- * Canceling the simulation mode to return to the normal mode
- 1) Press CLEAR ALL key.

B. How to change the simulation adjustment value set by the touch panel in the adjustment value entry process

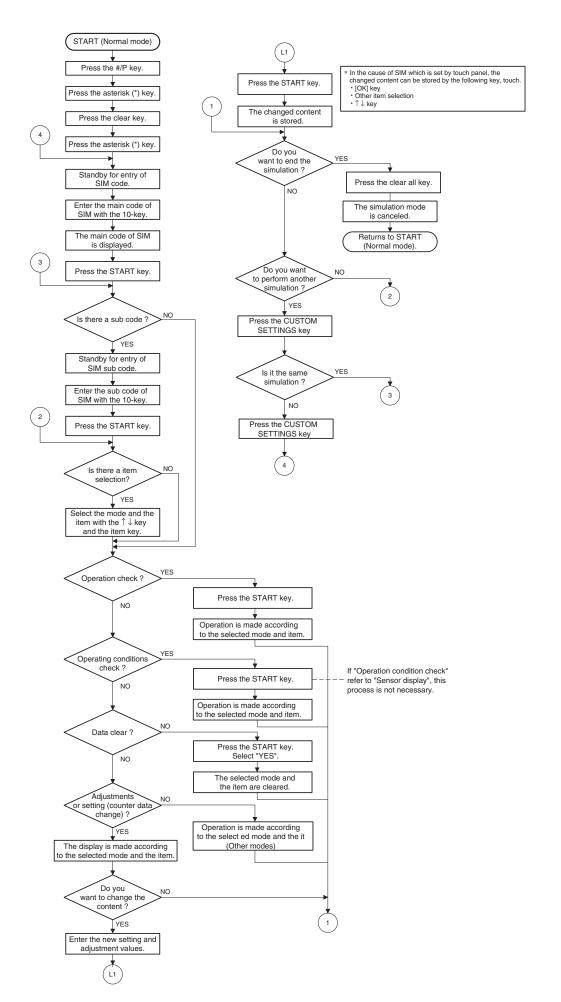
(1) Target SIM list

3-7, 8-1, 8-2, 8-3, 8-10, 8-11, 8-12, 9-5, 43-1, 44-34, 46-2, 46-7, 46-9, 46-10, 46-11, 46-18, 46-20, 46-30, 46-31, 48-1, 48-2, 50-1, 50-5, 50-6, 50-10, 50-12, 51-1, 51-2, 51-9, 53-7

(2) Touch panel operating procedure

- In the adjustment value setup menu, the selected item is highlighted.
 Change is made to the highlighted simulation adjustment value.
- If all the list of the adjustment items is not shown on one page, touch
 [↑] and [↓] button to shift the page.
- To change an adjustment value, touch the select the item to change the adjustment value. (The selected item is highlighted.) Enter the adjustment value and perform one of the following procedures, and the display of the adjustment value of the selected item is renewed as well as the adjustment value.
- 1) Touch [OK] button.
- 2) Touch another selected item to change the selection state.
- If all the list of the adjustment items cover two or more pages, touch [↑] and [↓] button to shift the page.

- 4) Press [START] key.
- * For simulations which allow confirmation print, copying is started after changing the adjustment value. (46-2, 46-7, 46-9, 46-10, 46-11, 46-18, 48-1, 48-2, 50-1, 50-5, 50-6, 50-10, 50-12, 51-2, the bold-faced items in the above list.)
- * If the entry value is outside the adjustable range, an error buzzer sounds and the adjustment value is not renewed. Page shift is not made, either.



3. Simulation code list

	ode	Function
Main	Sub	
1	1	Used to check the operation of the scanner unit and its control circuit.
	2	Used to check the operation of sensor and
		detector in the scanning (read) section and the
		related circuit.
2	1	Used to check the operation of the SPF/RSPF unit
	2	and the related circuit. Used to check the operation of sensors and
	2	detectors in the SPF/RSPF unit and the related
		circuit.
	3	Used to check the operation of the loads in the
		SPF/RSPF unit and the control circuits.
3	2	Used to check the operation of sensor and
	- 0	detector in the finisher and the related circuit.
	3	Used to check the operation of the load in the finisher and the control circuit.
	6	Used to adjust the alignment position (side
		regulation plate, rear edge regulation plate) for
		each paper size.
		Shifts to the specified paper size position.
	7	Used to adjust the offset tray operations.
	11	Used to check the shifter operation. Reciprocating operations are continuously
		performed or the home position is checked. (The
		shifter is shifted to the home position or moved in
		one way by the specified steps.)
4	2	Used to check the operation of sensor and
		detector in the option cassette and the related circuit.
	3	Used to check the operation of the load in the
	0	option tray and the control circuit.
5	1	Used to check the operation of the display (LED),
		LCD in the operation panel, and control circuit.
	2	Used to check the operation of the heater lamp
		and the control circuit.
	3	Used to check the operation of the copy lamp and the control circuit.
6	1	Used to check the operation of the loads (clutches
		and solenoids) in the paper transport system and
		the control circuit.
	2	Used to check the operation of each fan motor and
7	4	its control circuit.
7	6	Used to set the aging operation conditions. Used to set the cycle of intermittent aging.
	8	Used to set the cycle of intermittent aging. Used to set the display of the warm-up time.
8	1	Used to check and adjust the operation of the
		developing bias voltage in each copy mode and
		the control circuit.
	2	Used to check and adjust the operation of the main
		charger grid voltage (high mode) in each copy mode and the control circuit.
	3	Used to check and adjust the operation of the main
		charger grid voltage (low mode) in each copy
		mode and the control circuit.
	10	Used to check and adjust the operation of the
		developing bias voltage in each printer mode and the control circuit.
	11	Used to check and adjust the operation of the main
	''	charger grid voltage (high mode) in each printer
		mode and the control circuit.
	12	Used to check and adjust the operation of the main
		charger grid voltage (low mode) in each printer
		mode and the control circuit.

Co	de	
Main	Sub	Function
8	13	Used to check and adjust the operation of the
	1.5	developing bias voltage in FAX mode and the
		control circuit.
	14	Used to check and adjust the operation of the main
		charger grid voltage (high mode) in FAX mode and
		the control circuit.
	15	Used to check and adjust the operation of the main
		charger grid voltage (low mode) in FAX mode and
		the control circuit.
9	1	Used to check and adjust the operation of the load
		(motor) in the duplex section and the control
		circuit.
	4	Duplex motor RPM setting
	5	Used to adjust the timing of switching from normal
		rotation to reverse rotation or from reverse rotation
		to normal rotation of the duplex motor.
10	0	Used to check the operation of the toner motor and
		its control circuit.
14	0	Used to cancel excluding the self-diag U2/PF
10	_	troubles.
16	0	Used to cancel the self-diag U2 trouble.
17	0	Used to cancel the self diag "PF" trouble.
21	1	Used to set the maintenance cycle.
22	1	Used to check the counter value of each section.
	2	Used to check the total numbers of misfeed and
		troubles. (When the number of misfeed is
		considerably great, it is judged as necessary for
		repair. The misfeed rate is obtained by dividing this count value with the total counter value.)
	3	Used to check the misfeed positions and the
	3	number of misfeed at each position. (When the
		number of misfeed at each position. (When the
		judged as necessary for repair.)
	4	Used to check the total trouble (self diag) history.
	5	Used to check the ROM version of each unit
		(section).
	6	Used to print each key operator setting, the
		account information, and the machine adjustment
		values.
	7	Used to display the key operator code. (Use when
		the customer key operator code is forgotten.)
	8	Used to display the original, staple counter.
	9	Used to check the number of use of each paper
		feed section. (the number of prints)
	10	Used to check the system configuration.
	11	Used to display the FAX send/receive counter
		(FAX reception and print counter).
	12	Used to check the misfeed positions and the
		number of misfeed at each position. (When the
		number of misfeed is considerably great, it can be
	10	judged as necessary for repair.)
	13	Used to display the CRUM type.
	19	Used to display the scanner counter in the network
0.4	4	scanner mode.
24	1	Used to clear the misfeed counter, the misfeed history, the trouble counter, and the trouble history.
		(The counters are cleared after completion of
		maintenance.)
	2	Used to clear the number of use (the number of
	_	prints) of each paper feed section.
	3	Used to clear the number data of use of the staple,
		the SPF/RSPF and scanning.
	4	Used to reset the maintenance counter.
	5	Used to reset the developer counter. (The
		developer counter of the DV unit which is installed
		is reset.)
	6	Used to clear the copy counter.
	1	1.7

Co	de	Fire effect
Main	Sub	Function
24	7	Used to clear the OPC drum (membrane
		decrease) correction counter. (This simulation is
		executed when the OPC drum is replaced.
	9	Used to clear the printer counter and other
		counters. (The counter is cleared after completion of maintenance.)
	10	FAX counter data clear
	15	Used to clear the scanner counter in the network
	10	scanner mode.
25	1	Used to check the operation of the main drive
		(excluding the scanner section) and to check the
		operation of the toner concentration sensor. (The
		toner concentration sensor output can be
		monitored.) (To be supported for Ver.00.72 or
	2	later) Used to make the initial setting of toner
		concentration when replacing developer.
26	1	Used to set whether the job separator is installed
20	'	or not. (Since this cannot be detected by hardware
		detection, it is set in this simulation.)
	2	Used to set whether the automatic detection of
		paper size is made or not.
	3	Used to set the specifications of the auditor.
		Setting must be made depending on the use
		condition of the auditor.
	5	Used to set the count mode of the total counter and the maintenance counter.
	6	Used to set the specifications depending on the
		destination.
	10	Network scanner trial mode setting
	12	Used to input the Software Key for E-MAIL RIC.
	14	Used to input the Software Key for the PS
		extension kit.
	18	Used to set enable/disable of toner save operation.
	22	Used to set the specification (language display) for
		the destination.
	30	Used to set ON/OFF of the heater lamp slow-up
	25	control conforming to the CE mark control.
	35	Used to set whether the same continuous troubles are displayed as one trouble or the series of
		troubles with SIM 22-4 when the same troubles
		occur continuously.
	36	Used to set whether the machine is stopped or not
		when the maintenance counter life is expired.
	41	Used to set ON/OFF of the automatic
		magnification ratio selection (AMS) when setting
	46	the binding function.
	46	Used to set whether to meet with the output direction of images regardless of the mode when
		installing the finisher.
	50	Used to set ON/OFF of the black and white
		reversion function.
	57	Used to set the model code.
	60	Used to set enable/disable of the FAX mode key
		when FAX is not installed. (When FAX is installed,
		the FAX mode is enabled regardless of this setup.)
	71	In the power save time setting, the pre-heat (pre-
		heat mode setting) and the auto power shut off
		time can be set to the short time setup (pre-heat: 1 min, auto power shut off: 4 min) and the long time
		setup (pre-heat: 15min, auto power shut off:
		60min).
27	1	Used to set PC/MODEM communication trouble
		(U7-00) detection Yes/No.
<u> </u>	5	Used to set the tag number.

Co	de	
Main	Sub	Function
30	1	Used to display the sensor status attached to the
		machine.
	2	Used to display the status of the sensors attached
		to the standard cassette and the manual feed tray.
		(Use SIM 4-2 for the option cassettes.)
		The sensor of an uninstalled cassette is not
		displayed.
40	1	Used to check the sensor of the machine manual
	0	feed tray.
	2	Used to adjust the manual paper feed tray paper width detector detection level.
	3	The AD conversion value of manual feed width
	3	detection is displayed.
41	1	Used to check the document size detection photo
7.		sensor.
	2	Used to adjust the detection level of the document
	_	size photo sensor.
	3	Used to check the light reception level and the
		detection level of the original size detection photo
		sensor.
	4	Used to adjust the detection level of OC 20
		degrees.
43	1	Used to set the fusing temperature in 600dpi,
	10	1200dpi, or postcard print.
	10	Used to set the paper feed cycle timing when
44	4	printing postcards.
44	1	Used to make various setups in each mode of process control.
	34	Used to set the transfer current value in each
	04	mode.
	35	Used to set the DV-Bias/Grid environment (low
		temperature) correction temperature.
	40	Used to set the time from the start of the main
		motor rotation (Ready) to the start of toner supply
		in previous rotation after turning on the power.
46	2	Used to set the exposure level in each exposure
	_	mode.
	7	Used to adjust the shift amount and the inclination value for each level (1 to 5) of the exposure mode
		(Super Photo).
	9	Used to adjust the shift amount and the inclination
		value for each level (1 to 5) of the exposure mode
		(Text).
	10	Used to adjust the shift amount and the inclination
		value for each level (1 to 5) of the exposure mode
		(Text/Photo).
	11	Used to adjust the shift amount and the inclination
		value for each level (1 to 5) of the exposure mode
	10	(Photo).
	12	FAX exposure level adjustment (1 mode automatic
	13	adjustment) EAX exposure level adjustment (Normal mode
	13	FAX exposure level adjustment (Normal mode individual adjustment)
	14	FAX exposure level adjustment (Fine text mode
	' '	individual adjustment)
	15	FAX exposure level adjustment (Super Fine mode
		individual adjustment)
	16	FAX exposure level adjustment (Ultra Fine mode
		individual adjustment)
	18	Used to adjust inclination for each exposure mode.
	19	Used to set the control method of the exposure
		mode.
	20	Used to set the exposure correction value of SPF/
		RSPF for OC exposure.
	30	Used to set the AE and the limit value in AE (Toner
		save).

Co Main	Sub	Function
46	31	Used to set the AE and the limit value in AE (Tone
	39	save). Used to switch the FAX send image quality.
48	1	Used to adjust the copy mode magnification ratio
		(main scanning direction, sub scanning direction).
	2	Used to adjust the scanner mode magnification
		ratio (main/sub scanning direction).
	8	FAX magnification adjustment (read)
50	9	FAX magnification adjustment (print) Used to adjust the copy lead edge position.
50	5	Used to adjust the copy lead edge position. Used to adjust the print image position (top
	Ü	margin) on the print paper in the print mode.
	6	Used to adjust the print image position (top
		margin) on print paper in the copy mode. (SPF/RSPF)
	8	FAX lead edge adjustment (read)
•	9	FAX lead edge adjustment (print)
	10	Used to adjust the print image center position.
		(Adjustment can be made for each paper feed section.)
	12	Used to adjust the print image center position.
		(Adjustment can be made for each document
		mode.)
51	1	Used to adjust the OPC drum separation pawl ON
	2	time. Used to adjust the contact pressure of paper onto
	2	the resist roller in each section (copier paper feed
		section, duplex paper feed section, SPF/RSPF
		paper feed section). (When the print image
		position varies greatly for the paper or when a lot
		of paper jam troubles occur, the adjustment is required.)
	8	Used to set the OPC drum separation pawl
		operation inhibit. (ON/OFF)
	9	Used to adjust the OPC drum separation voltage ON/OFF timing.
53	6	Used to adjust the detection level of the SPF/
		RSPF width. The adjustment method is the 4-point
		system. Set the guide to Max. (A3/WLetter)
		position, A4R/Letter R position, A5R/Invoice R position, and Min. position for adjustment.
	7	Used to enter the SPF/RSPF width detection
		adjustment value.
	8	Used to adjust the SPF/RSPF scan position of the
		mirror unit automatically. For the SPF/RSPF scan position automatic adjustment, the mirror unit is
		shifted to 11mm before the SPF/RSPF glass cover
		edge, and is operated automatically to scan
		images by the unit of 1 step, detecting the position
		up to the glass cover automatically.
		(Adjustment value) Default: 50, Adjustment range: 1 - 99
		Adjustment unit: 1 = about 0.12mm
61	1	Used to check the LSU (polygon motor) operation
63	1	Used to check the result of shading correction.
		(The shading correction data are displayed.)
	7	Used to adjust the SPF/RSPF white correction
		start pixel position automatically. This adjustment is performed after the lens unit is
		replaced.
64	1	Used to check the operation of the printer function
		(auto print operation).

Co	de	
Main	Sub	Function
65	1	Used to adjust the touch panel (LCD display section) detection position.
	2	Used to check the touch panel (LCD display section) detection position adjustment result.
	5	Used to check the key inputs of the operation panel.
66	1	Used to change and check the FAX-related soft SW.
	2	Used to clear the FAX-related soft SW. (Except for the FAX adjustment values)
	3	FAX PWB memory check
	4	Signal send mode (Signal send level: Max.)
	5	Signal send mode (Signal send level soft SW setting)
	6	Printing the confidential password
	7	Print the screen memory contents
	8	Voice Message send (Signal send level: Max.) (Japan only)
	9	Used to send the voice message. (Signal send level: Set by soft SW.)
	10	Image data memory clear
	11	Used to send 300bps signals. (Signal send level: Max.)
	12	Used to send 300bps signals. (Signal send level: Set by soft SW)
	13	Used to register the dial numbers.
	14	Used to perform the dial test. (10 PPS send test)
	15	Used to perform the dial test. (20 PPS send test)
	16	Used to perform the dial test. (DTFM signal send test)
	17	Used to check the DTFM signal send operation. (Signal send level: Max.)
	18	Used to check the DTFM signal send operation. (Signal send level: Set by soft SW.)
	19	Used to write the SRAM data to the Flash ROM.
	20	Used to write the Flash ROM data to the SRAM.
	21	FAX information print
	22 24	Handset sound volume adjustment (Japan only) Used to clear the FAST storage data. (SEC only)
	30	Used to set the TEL/LIU.
	31	Used to set the TEL/LIU.
	32	Receive data check
	33	Signal detection check
	34	Communication time measurement display
	37	Speaker sound volume adjustment
	41	CI signal check
67	1	Used to execute read/write check of the RAM on the PCL board, and to display the result. (To be supported for MCLL v00.45 or later)
	11	supported for MCU v00.45 or later) Used to set the select-in signal of the Centro port.
	14	Used to set the select-in signal of the Centro port. Used to check write/comparison of flash programs.
	15	Used to check the validity of the ROM on the PCL
		board and the result is displayed. (To be supported for MCU v00.45 or later)
	17	Used to clear the printer section setting. (NVRAM
		clear)
	18	Used to clear the data area for FLASH ROM Network Scanner Application.
	20	Used to check the network connection when the
	0	scanner option is installed.

4. Details



1-1	
Purpose	Operation test/check
Function	Used to check the operation of the scanner unit and its
(Purpose)	control circuit.
Section	Optical (Image scanning)
Item	Operation

Operation/procedure

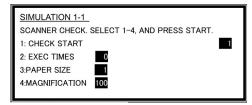
Enter the number of operations, and set the magnification ratio and the original size.

- 1. Select the desired item, and press the [START] key.
- 2. Enter the set value with the 10-key, and press the [START] key.

The scanner unit operates at the speed corresponding to the set value.

The scan counter is displayed during execution.

Set magnification ratio	25% to 400% (1% increment) (Default 100%)		
Document size	Varies depending on the destination.		
Set number of times	1 to 999 (0: Continuous operation)		



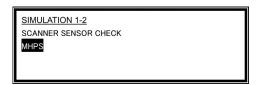
1-2

Purpose	Operation test/check
Function	Used to check the operation of sensor and detector in
(Purpose)	the scanning (read) section and the related circuit.
Section	Optical (Image scanning)
Item	Operation

Operation/procedure

The status of sensors and detectors in the scanner section is displayed. The active sensors and detectors are highlighted.

MHPS	Mirror home position sensor
------	-----------------------------



2

2-1				
Purpose	Operation test/check			
Function	Used to check the operation of the SPF/RSPF unit and			
(Purpose)	the related circuit.			
Section	SPF/RSPF			
Item	Operation			

Operation/procedure

Enter the number of operations, and set the magnification ratio and the original size.

- 1. Select the desired item, and press the [START] key.
- 2. Enter the set value with the 10-key, and press the [START] key.

The SPF/RSPF unit operates at the speed corresponding to the set value.

The scan counter is displayed during execution.

Set magnification ratio	50% to 200% (1% increment) (Default 100%)
Document size	Varies depending on the destination.
Duplex	Selectable only when RSPF is installed.
Set number of times	1 to 999 (0: Continuous operation)

Note: Executable only when the SPF/RSPF is installed.

SIMULATION 2-1				
SPF AGING TEST. SELECT 1-5, AND PRESS START.				
1:TEST START 2:EXEC TIMES 0 3:PAPER SIZE 1	1			
4: MAGNIFICATION 100 5:PAPER SIDE 1				

Purpose Operation test/check
Function (Purpose) Used to check the operation of sensors and detectors in the SPF/RSPF unit and the related circuit.

Section SPF/RSPF

Operation/procedure

Item

The operations of sensors and detectors in the SPF/RSPF section are displayed.

The active sensors and detectors are highlighted.

Operation

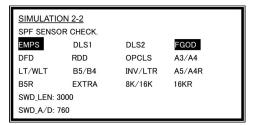
(For the original size, the detection result of the original size displayed on the copy menu is highlighted.)

EMPS	Original empty sensor
DLS1	Original length sensor (Small)
DLS2	Original length sensor (Large)
FGOD	SPF/RSPF paper feed cover open/close sensor
DFD	SPF/RSPF paper entry sensor
RDD	SPF/RSPF original exit sensor
OPCLS	Book sensor
SWD_LEN	Original detection width sensor (Unit of 0.1mm. "Width x 10" is displayed. Example: For 300mm, 3000 is displayed.)
SWD_A/D	Original detection width sensor A/D value

SPF/RSPF width detection size (One of the following is displayed.)

A4/A3, LT/WLT, B5/B4, INV/LTR, A5/A4R, B5R, EXTRA, 8K/16K, 16KR

Note: Executable only when the SPF/RSPF is installed.



Purpose Operation test/check

Function (Purpose) RSPF unit and the control circuits.

Section SPF/RSPF

Item Operation

Operation/procedure

Select the load to be checked with the 10-key, and press the [START] key.

The motor for 10sec, the solenoid ON for 500msec, OFF for 500msec. (20 times)

	Item	Content	
1 DTM-F SPF/RSPF motor forward rotation		SPF/RSPF motor forward rotation	
2	2 DTM-R SPF/RSPF motor reverse rotation		
3	DFCL	SPF/RSPF paper feed clutch	
4	CLH	SPF/RSPF PS clutch	
5	GSOL	Document exit gate solenoid	
6	RSOL	Document exit pressure solenoid	

Note: Executable only when the SPF/RSPF is installed.

23 · 10 - # 1 /							
SIMULATION 2-3							
SPF LOAD	TEST. SELE	CT 1-6, A	ND PRESS	START.			
1:DTM-F	2:DTM-R	3:DFCL	4:CLH	2			
5:GSOL	6:RSOL						



3-2	
Purpose	Operation test/check
Function	Used to check the operation of sensor and detector in
(Purpose)	the finisher and the related circuit.
Section	Finisher
Item	Operation

Operation/procedure

Used to display the operations of sensors and detectors in the finisher section.

The active sensors and detectors are highlighted.

	conserve and detectors are inginion.
INPD	Finisher paper entry sensor
FWPS	Paper width sensor
JGHP1	Side guide plate HP sensor
JGHP2	Rear edge plate HP sensor
JGPD	Tray paper empty sensor
T10D	1st tray exit sensor
T1PF	1st tray paper full sensor
PGOP	JAM processing PG open/close detection sensor
T2OD	2nd tray exit sensor
OFHP	Offset HP sensor
T2UP	Tray position sensor (upper)
T2DN	Tray position sensor (lower)
JGDSW	Tray jam processing interlock
EVRE	Lift-up drive control sensor
STHP	Staple HP sensor
READY	Self priming sensor
LSTS	Staple empty sensor
NCTS	Cartridge empty sensor
STND	Staple supply cover open/close sensor
T2PUD	2nd tray upper surface sensor

Note: Executable only when the finisher is installed.

-	ATION : ER SENS		ECK				
INPD	FWPS	JGHP1	JGHP2	JGPD	T10D	T1PF	
PGOP	T2OD	OFHP	T2UP	T2DN	JGDS	W EVRE	
STHP	READY	LSTS	NCTS	STND	T2PU)	

3-3			
Purpose	Operation test/check		
Function	Function Used to check the operation of the load in the finisher		
(Purpose) and the control circuit.			
Section	Finisher		
Item	Operation		

Operation/procedure

Select the load to be checked with the 10-key, and press the [START] key.

The finisher main motor operates for 10sec, the staple motor 5 times, the tray lift-up motor one reciprocating operation, other motors max. 20 reciprocating operations from the home position, the solenoid repeats 500msec ON and 500msec OFF 20 times.

The staple operation motor operates only when there is no cartridge installed.

	Item	Content
1	JGM1	Side guide plate drive motor
2	JGM2	Rear edge plate drive motor
3	FM-600	Finisher main motor (600dpi)
4	FM-1200	Finisher main motor (1200dpi)
5	EVM	Tray lift-up motor
6	OFM	Tray offset motor
7	STM	Staple operation motor
8	OGSLR	Transport selection gate solenoid (R)
9	OGSLL	Transport selection gate solenoid (L)
10	JGSL1	Rear edge plate drive solenoid
11	JGSL2	Upper alignment plate drive solenoid
12	SHTSL	Shutter drive solenoid
13	T2SCL	Paper exit roller clutch
14	STGSL	Paper holding solenoid

Note: Executable only when the finisher is installed.

SIMULATION 3-3					
		SELECT 1-	14, AND PRESS START.		
1:JGM1	2:JGM2	3:FM-600	4:FM-1200		
5:EVM	6:OFM	7:STM	8:OGSLR		
9:OGSLL	10:JGSL1	11:JGSL2	12:SHTSL		
13:T2SCL	14:STGSL				

3-6	
Purpose	Adjustment
Function	Used to adjust the alignment position (side regulation
(Purpose) plate, rear edge regulation plate) for each paper size	
	Shifts to the specified paper size position.
Section	Finisher
Item	Operation

Operation/procedure

After the paper size is set, the side guide plate and the rear guide plate are set.

- 1. Enter the desired item with the 10-key, and press the [START] key.
- Enter the adjustment value with the 10-key, and press the [START] key.

Item		Content	Setting range	Default
1	PAPER SIZE	Paper size (1:A3, 2:A4, 3:B4, 4:B5, 5:A4R, 6:WLT, 7:LT, 8:LG, 9:FC, 10:LTR, 11:8K, 12:16K)	1-12	A4
2	JOGGER POS X	Side guide plate	1-99	50
3	JOGGER POS Y	Rear edge guide plate		

There are 6 adjustment values for the side guide plate, and 12 for the rear guide plate. The adjustment position is determined from the table below according to the paper size.

Paper size	Side guide plate adjustment value number	Adjustment value number of the rear edge guide plate
A3	1	2
A4	1	9
B4	3	3
B5	3	10

Paper size	Side guide plate adjustment value number	Adjustment value number of the rear edge guide plate
A4R	5	6
WLT	2	1
LT	2	8
LG	4	4
FC	4	5
LTR	4	7
8K	6	11
16K	6	12

Note: Executable only when the finisher is installed.

SIMULATI	ON 3-6				
FINISHER	JOGGER	ADJUSTMENT.	SELECT	1-3,	AND
PRESS ST.	ART.				
1:PAPER SIZE					2
2:JOGGER	POS X				
3-JOGGER	POS Y				

2	7
.თ-	1

Purpose	Adjustment
Function (Purpose)	Used to adjust the offset tray operations.
Section	Finisher
Item	Operation

Operation/procedure

- 1. Touch the operation item to be set.
- 2. Enter the set value with the 10-key.

Item		Content	Installation range	Default		
1	PAPER PUSH	Paper holder	34-66	50		
	TMG	descending timing				
		in non-staple				
		Used to adjust the de	•	•		
		the paper holder leve operation after paper		0		
		operation. (The paper				
		prevents against pape				
		surface detection and				
2	PAPER OUT	Tray descending	0-12	1		
	DOWN	distance after non-				
		staple paper exit				
		Used to adjust the offset tray descending				
		distance after non-staple paper exit.				
		The descending distance is the relative				
		distance from the non-staple standby				
_	074015110	position.	0.10			
3	STAPLE UP	Tray lift distance before staple paper	0-12	6		
		exit				
		The height of the tray	standhy nos	ition in		
		stapling is changed for	, ,			
		to improve stacking c				
		(The relative distance	for the heigh	nt of the		
		tray standby position	in non-staplir	ng is		
		set.)	Ī	1		
4	STAPLE DOWN	Tray descending	0-12	6		
		distance after staple				
		paper exit				
		Used to adjust the offset tray descending				
		distance after staple paper exit. The descending distance is the relative				
		distance from the non-staple standby				
		position.		- ,		

Item		Content		Installation range	Default	
5	OFFSET INI.POS	Offset	tray shift	0-99	13	
		positio	n adjustment			
		Used to	o shift the offse	t tray to the sl	hipment	
		positio	n or the disass	embly positio	n.	
		The of	ffset tray is sh	ifted to the s	specified	
		counte	r position.			
		(In the	case of 0 - 94	(Shipment po	sition)	
		1) Initialize the offset tray normally.				
			e tray descen sition + 1 pulse	•	arameter	
		 The tray lifts up to the specified parameter position. 				
		(Disass	sembly position	n: 94 - 99)		
		1) The	e tray descend	s to the botto	m.	
		* If there is some paper in the offset tray,				
		the tray cannot descend to the specified				
		position. Check to insure that there is no			ere is no	
		paper in the tray before execution.				

Note: Executable only when the finisher is installed.

	STMENT. INPUT VALUE 34–66, AND	PRESS
START. 1: PAPER PUSH TMG 2: PAPER OUT DOWN	50	50 1/1
3: STAPLE UP 4: STAPLE DOWN	6	1/1
5: OFFSET INI.POS	13	
		ОК

3-11	3-11		
Purpose	Operation test/check		
Function	Used to check the shifter operation.		
(Purpose)	(Purpose) Reciprocating operations are continuously performed		
	or the home position is checked. (The shifter is shifted		
	to the home position or moved in one way by the		
specified steps.)			
Item	Operation		

Operation/procedure

Select item "1," and press the [START] key.

The shifter is reciprocated continuously at the specified interval.

	Item		Content	
1	_	F-R	Reciprocating operation	
2	2	HP CHECK	Home position check	

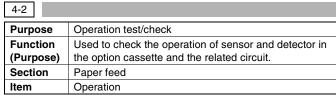
[Selection 2]

- 1. Select item "2," and press the [START] key.
- 2. Move the shifter to the home position or in one way by the specified steps with the following keys.

[*] key	Shifts the position toward R side by the specified steps.	
[0 key	Shifts the position toward HP side by the specified steps.	
[#] key	Shifts to F.	
SFTHP	Shifter home position (At detection, highlighted)	







The operating states of the sensor and the detector are displayed. (Only the installed option cassettes are displayed. For the standard tray, use SIM 30-2.)

The active sensors and detectors are highlighted.

PED2	2nd cassette paper empty sensor
LUD2	2nd cassette paper upper limit detection sensor
PFD2	2nd cassette paper pass sensor
CD2	2nd cassette empty sensor
PED3	3rd cassette paper empty sensor
LUD3	3rd cassette paper upper limit detection sensor
PFD3	3rd cassette paper pass sensor
CD3	3rd cassette empty sensor
PED4	4th cassette paper empty sensor
LUD4	4th cassette paper upper limit detection sensor
PFD4	4th cassette paper pass sensor
CD4	4th cassette empty sensor
DSWR2	2nd cassette right door detection sensor
DSWR3	3rd cassette right door detection sensor
DSWR4	4th cassette right door detection sensor

Note: Execution is possible only when the option cassette is installed.

SIMULATION 4-2
OPTION CASSETTE SENSOR CHECK.
PED2 LUD2 PFD2 CD2 PED3 LUD3 PFD3 CD3
PED4 LUD4 PFD4 CD4 DSWR2 DSWR3 DSWR4

4-3		
Purpose Operation test/check		
Function Used to check the operation of the load in the option		
(Purpose) tray and the control circuit.		
Section Paper feed		
Item	Operation	

Operation/procedure

Select the load to be checked with the 10-key, and press the [START] key.

The motor for 10sec, the solenoid ON for 500msec, OFF for 500msec. The lift-up motor operates only when the tray is opened. (20 times)

	Item	Content
1	LUM2	2nd cassette lift-up motor
2	CPFC2	2nd cassette pick-up solenoid
3	CPFS2	2nd cassette paper feed clutch
4	TRC2	2nd cassette transport roller clutch
5	DM	2nd cassette paper transport motor (3rd cassette
		paper transport motor)
6	LUM3	3rd cassette lift-up motor
7	CPFC3	3rd cassette pick-up solenoid
8	CPFS3	3rd cassette paper feed clutch
9	TRC3	3rd cassette transport roller clutch
10	LUM4	4th cassette lift-up motor
11	CPFC4	4th cassette pick-up solenoid
12	CPFS4	4th cassette paper feed clutch

Note: Execution is possible only when the option cassette is installed.

SIMULATION 4-3					
OPTION	CASSETTE	OUTPUT	CHECK.	SELECT 1-1	2, AND
PRESS S	TART.				
1:LUM2	2:CPFC2	3:CPFS2	4:TRC2	5:DM	8
6:LUM3	7:CPFC3	8:CPFS3	9:TRC3	10:LUM4	
11:CPFC4	12:CPFS4				

5

5-1		
Purpose Operation test/check		
Function Used to check the operation of the display (LED)		
(Purpose)	in the operation panel, and control circuit.	
Section Operation (screen/operation)		
Item	Operation	

Operation/procedure

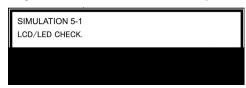
The LCD is displayed as follows. (All LED's are ON.)

With the upper half highlighted and the lower half normally displayed, contrast changes "Standard \to MAX \to MIN." in every 2sec.



(6 sec later)

With the upper half normally displayed and the lower half highlighted, contrast changes "Standard \rightarrow MAX \rightarrow MIN." in every 2sec.



* When returning to the sub menu selection menu, the display of the standard contrast is displayed for an instant.

5-2		
Purpose Operation test/check		
Function Used to check the operation of the heater lamp and		
(Purpose) control circuit.		
Section	Fusing	
Item	Operation	

Operation/procedure

 Select the lamp to be checked with the 10-key, and press the [START] key.

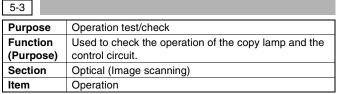
ON/OFF operation of the heater lamp is repeated 5 times in an interval of 100ms/900ms.

When completing the operation, the cooling fan is rotated at a low speed.

Item Content

Item		Content
1	HL1	Heater lamp 1 (Main) operation
2	HL2	Heater lamp 2 (Sub) operation





When the [START] key is pressed, the copy lamp is lighted for 10sec.



6

6-1		
Purpose Operation test/check		
Function Used to check the operation of the loads (clutches		
(Purpose) solenoids) in the paper transport system and the		
control circuit.		
Section Paper transport (Discharge/Switchback/Transport)		
Item	Operation	

Operation/procedure

 Select the load to be checked with the 10-key, and press the [START] key.

The motor for 10sec, the solenoid ON for 500msec, OFF for 500msec. (20 times)

When the [CUSTOM SETTINGS] is pressed, the operation is interrupted. $% \label{eq:custom} % \label{eq:cus$

The lift-up motor operates only when the tray is opened.

	Item	Content
1	LUM1	1st cassette lift-up motor
2	CPFC1	1st cassette pick-up solenoid
3	CPFS1	1st cassette paper feed clutch
4	MPFS	Manual feed pick-up solenoid
5	RRC	Resist roller clutch
6	PSPS	Separation pawl solenoid
7	OGS	Paper exit gate switching solenoid
8	LUM2	2nd cassette lift-up motor
9	CPFC2	2nd cassette pick-up solenoid
10	CPFS2	2nd cassette paper feed clutch
11	TRC2	2nd cassette transport roller clutch
12	LUM3	3rd cassette lift-up motor
13	CPFC3	3rd cassette pick-up solenoid
14	CPFS3	3rd cassette paper feed clutch
15	TRC3	3rd cassette transport roller clutch
16	LUM4	4th cassette lift-up motor
17	CPFC4	4th cassette pick-up solenoid
18	CPFS4	4th cassette paper feed clutch

The lift-up motor operates only when the tray is opened.

G						
	SIMULATION 6-1					
	FEED OUT	PUT CHECK	. SELECT 1	-18, AND PF	RESS STAI	RT.
	1:LUM1	2:CPFC1	3:CPFS1	4:MPFS	5:RRC	8
	6:PSPS	7:OGS	8:LUM2	9:CPFC2	10:CPFS	2
	11:TRC2	12:LUM3	13:CPFC3	14:CPFS3	15:TRC3	
	16:LUM4	17:CPFC4	18:CPFS4			

6-2			
Purpose	Operation test/check		
Function	Used to check the operation of each fan motor and its		
(Purpose)	control circuit.		
Section	Others		
Item	Operation		

Operation/procedure

Select the load to be checked with the 10-key, and press the [START] key.

The selected load is operated for 10sec.

	·	
	Item	Content
1	VFM	Only the fusing fan operates
2	DCFM&DCFM2	Power cooling fan, power cooling fan 2 operations
3	VFM&DCFM&DCFM2	Fusing fan, power cooling fan, and power cooling fan 2 are operated at the same time.

SIMULATION 6-2
FAN MOTOR CHECK. SELECT 1-3, AND PRESS START.
1:VFM 2
2:DCFM&DCFM2
3:VFM&DCFM&DCFM2



7-1		
Purpose	Setting/Operation test/check	
Function (Purpose)	Used to set the aging operation conditions.	
Item	Operation	

Operation/procedure

- 1. Select the load to be set with the 10-key.
- 2. Press the [START] key.

When selected without setup, the selected value is registered and highlighted. When selected with previous setup, the previous setup is canceled and it is displayed normally.

Press [CA] key, and the simulation will be terminated and the machine goes into the aging standby mode with the set content.

This setting is canceled by power OFF.

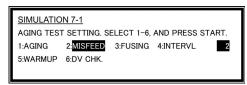
	-	• •	
	Item	Content	
1	AGING	Aging enable/disable setting	
2	MISFEED	Jam detection enable/disable setting	
3	FUSING	Fusing operation enable/disable setting	
		The fusing temperature is not controlled. The	
		heater is not turned ON.	
4	INTERVL	Intermittent setting (Valid only when set to AGING.)	
5	WARMUP	Warm-up save setting	
		The machine goes into the ready state only by	
		shading, disregarding fusing and process control.	
		After going into the ready state, normal control is	
		performed.	
6	DV CHK.	Developing unit detection enable/disable setting	

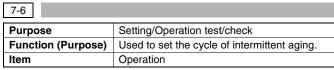
*1: When the machine exits from the fusing ignoring state, the roller may be cooled down. Therefore, reset the machine to warm up again.

When, therefore, the simulation is canceled by pressing the [CA] key or when the copy mode display is shifted to the initial menu display in the simulation mode of one page copy, the machine is reset.

Note: In SIM 7-1, pressing [CA] key terminates the simulation and the machine enters the aging mode without resetting. Therefore, to perform "4. Intermittent setup," the intermittent cycle must be set with SIM 7-6 in advance.

Reset is not performed when the machine enters the aging mode.





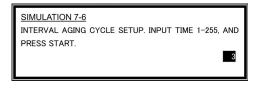
Operation/procedure

- Enter the interval aging cycle time (sec) with the 10-key pad. Refer to SIM 7-1.
- 2. Press the [START] key.

When the [START] key is pressed in aging, copying is performed continuously. This simulation is used to set the time interval between copy operations in the unit of second.

This setting is valid when SIM 7-1 (Intermittent setting) is enabled.

Setting range	1-255
Default	3



7-8		
Purpose Setting/Operation test/check		
Function	Used to set the display of the warm-up time.	
(Purpose)		
Item	Operation	

Operation/procedure

- 1. Warm-up starts by the cover open/close.
 - (Can be performed repeatedly by open/close of the cover.)
- 2. The warm-up time is counted up and displayed in the unit of sec. If the [CA] key is pressed at this time, count-up is interrupted to terminate the simulation. (However, warm-up is continued.)
- After completion of warming up, "WARM UP COMPLETED" is displayed and the control returns to the initial screen.



8

8-1			
Purpose Adjustment/Operation test/check			
Function Used to check and adjust the operation of the			
(Purpose)	developing bias voltage in each copy mode and the control circuit.		
Section	Image process (Photoconductor/Developing/Transfer/Cleaning)		
	Developer/Toner hopper		

Operation/procedure

- Touch the exposure mode to be changed.
 The current set value is displayed.
- 2. Enter the set value with the 10-key.
- 3. Press the [START] key.

Output is made with the entered value, and the display returns to the original state.

Item		Item Content		Default
1	AE	AE (*)	200-550	400 (-400V)
2	TEXT	Character		450 (-450V)
3	TEXT/PHOTO	Character/Photo		450 (-450V)
4	PHOTO	Photo		450 (-450V)
5	SUPER/PHOTO	Super photo		400 (-400V)
6	TONER SAVE	Toner save		376 (-376V)

(*) Linked with the destinations of SIM 26-6.

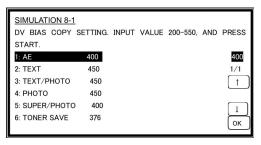
Linked with the auto exposure mode of SIM 46-19-1.

The minimum increment is 2V.

The result of (Set value - 199) / 2 is stored in the EEPROM.

When reading a value from the EEPROM, the value of (EEP value *2) + 200 is used as the set value.

Therefore, the set value entered must be an even number. If an odd number is entered the entered odd number + 1 is displayed after pressing [START] key.



8-2			
Purpose	Adjustment/Operation test/check		
Function (Purpose)	Used to check and adjust the operation of the main charger grid voltage (high mode) in each copy mode and the control circuit.		
Section	Image process (Photoconductor/Developing/Transfer/ Cleaning) Photo conductor		

Operation/procedure

- Touch the exposure mode to be changed.
 The current set value is displayed.
- 2. Enter the set value with the 10-key.
- 3. Press the [START] key.

Output is made with the entered value for 30sec, and the display returns to the original state.

	-					
Item		Content	Setting range	Default		
1	AE	AE (*)	1-8	3 (-530V)		
2	TEXT	Character		5 (-580V)		
3	TEXT/PHOTO	Character/Photo		5 (-580V)		
4	PHOTO	Photo		5 (-580V)		
5	SUPER/PHOTO	Super photo		3 (-530V)		
6	TONER SAVE	Toner save		2 (-505V)		

Min. unit: -25V increment

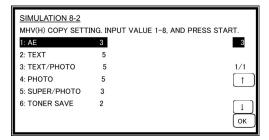
(*) Linked with the destinations of SIM 26-6. Linked with the auto exposure mode of SIM 46-19-1.

NO.	Set value	Grid High	Grid Low
1	480	-480V	-350V
2	505	-505V	-375V
3	530	-530V	-400V

NO.	Set value	Grid High	Grid Low
4	555	-555V	-425V
5	580	-580V	-450V
6	605	-605V	-475V
7	630	-630V	-500V
8	655	-655V	-525V

- *1. The negative value of the set value corresponds to the grid high output voltage.
- *2. The set values can be selected from the above 8 patterns only.
- *3. The selected pattern determines the grid high voltage and the grid low voltage.

If, for example, the grid high voltage is set to -480V (pattern 1), the grid low voltage is -350V.



8-3				
Purpose	Adjustment/Operation test/check			
Function Used to check and adjust the operation of the main				
(Purpose)	charger grid voltage (low mode) in each copy mode			
and the control circuit.				
Section Image process (Photoconductor/Developing/Transfe				
	Cleaning)			
	Photo conductor			

Operation/procedure

- 1. Touch the exposure mode to be changed. The current set value is highlighted.
- 2. Enter the set value with the 10-key.
- 3. Press the [START] key.

Output is made with the entered value for 30sec, and the display returns to the original state.

Item		Content	Setting range	Default
1	AE	AE (*)	1-8	3 (-400V)
2	TEXT	Character		5 (-450V)
3	TEXT/PHOTO	Character/Photo		5 (-450V)
4	PHOTO	Photo		5 (-450V)
5	SUPER/PHOTO	Super photo		3 (-400V)
6	TONER SAVE	Toner save		2 (-375V)

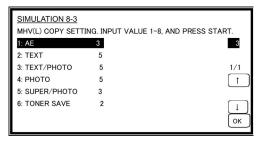
Min. unit: -25V increment

(*) Linked with the destinations of SIM 26-6. Linked with the auto exposure mode of SIM 46-19-1.

NO.	Set value	Grid High	Grid Low
1	480	-480V	-350V
2	505	-505V	–375V
3	530	-530V	-400V
4	555	-555V	-425V
5	580	-580V	-450V
6	605	-605V	-475V
7	630	-630V	-500V
8	655	-655V	-525V

- *1. The negative value of the set value corresponds to the grid high output voltage.
- *2. The set values can be selected from the above 8 patterns only.
- *3. The selected pattern determines the grid high voltage and the grid low voltage.

If, for example, the grid high voltage is set to –480V (pattern 1), the grid low voltage is –350V.



8-10					
Purpose	Adjustment/Operation test/check				
Function	Used to check and adjust the operation of the				
(Purpose)	e) developing bias voltage in each printer mode and the				
control circuit.					
Section Image process (Photoconductor/Developing/Transfe					
Cleaning)					
	Developer/Toner hopper				

Operation/procedure

- 1. Touch the exposure mode to be changed. The current set value is displayed.
- 2. Enter the set value with the 10-key.
- 3. Press the [START] key.

Output is made with the entered value for 30sec, and the display returns to the original state.

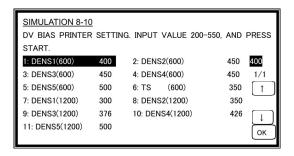
	Item	Content	Installation range	Default
1	DENS1(600)	Density 1 (600dpi)	200-550	400 (-400V)
2	DENS2(600)	Density 2 (600dpi)		450 (-450V)
3	DENS3(600)	Density 3 (600dpi)		450 (-450V)
4	DENS4(600)	Density 4 (600dpi)		450 (-450V)
5	DENS5(600)	Density 5 (600dpi)		500 (-500V)
6	TS(600)	Toner save (600dpi)		350 (-350V)
7	DENS1(1200)	Density 1 (1200dpi)		300 (-300V)
8	DENS2(1200)	Density 2 (1200dpi)		350 (-350V)
9	DENS3(1200)	Density 3 (1200dpi)		376 (-376V)
10	DENS4(1200)	Density 4 (1200dpi)		426 (-426V)
11	DENS5(1200)	Density 5 (1200dpi)		500 (-500V)

The minimum increment is 2V.

The result of (Set value - 199) / 2 is stored in the EEPROM.

When reading a value from the EEPROM, the value of (EEP value *2) + 200 is used as the set value.

Therefore, the set value entered must be an even number. If an odd number is entered the entered odd number + 1 is displayed after pressing [START] key.



8-11				
Purpose	Adjustment/Operation test/check			
Function (Purpose)	Used to check and adjust the operation of the main charger grid voltage (high mode) in each printer mode and the control circuit.			
Section	Image process (Photoconductor/Developing/Transfer/ Cleaning) Photo conductor			

- 1. Touch the exposure mode to be changed. The current set value is highlighted.
- 2. Enter the set value with the 10-key.
- 3. Press the [START] key.

Output is made with the entered value for 30sec, and the display returns to the original state.

Item		Content	Installation range	Default
1	DENS1(600)	Density 1 (600dpi)	1-8	5 (-580V)
2	DENS2(600)	Density 2 (600dpi)		5 (-580V)
3	DENS3(600)	Density 3 (600dpi)		5 (-580V)
4	DENS4(600)	Density 4 (600dpi)		5 (-580V)
5	DENS5(600)	Density 5 (600dpi)		7 (-630V)
6	TS(600)	Toner save (600dpi)		3 (-530V)
7	DENS1(1200)	Density 1 (1200dpi)		1 (-480V)
8	DENS2(1200)	Density 2 (1200dpi)		3 (-530V)
9	DENS3(1200)	Density 3 (1200dpi)		4 (-555V)
10	DENS4(1200)	Density 4 (1200dpi)		5 (-580V)
11	DENS5(1200)	Density 5 (1200dpi)		7 (-630V)

Min. unit: 25V increment

NO.	Set value	Grid High	Grid Low
1	480	-480V	-350V
2	505	-505V	–375V
3	530	-530V	-400V
4	555	-555V	-425V
5	580	-580V	-450V
6	605	-605V	-475V
7	630	-630V	-500V
8	655	-655V	-525V

- *1. The negative value of the set value corresponds to the grid high output voltage.
- *2. The set values can be selected from the above 8 patterns only.
- *3. The selected pattern determines the grid high voltage and the grid low voltage.

If, for example, the grid high voltage is set to -480V (pattern 1), the grid low voltage is -350V.

SIMULATION 8-11			
MHV(H) PRINTER S	ETTING.	INPUT VALUE 1-8, AN	D PRESS START.
1: DENS1(600)	5	2: DENS2(600)	5 5
3: DENS3(600)	5	4: DENS4(600)	5
5: DENS5(600)	7	6: TS (600)	3 1/1
7: DENS1(1200)	1	8: DENS2(1200)	3 ↑
9: DENS3(1200)	4	10: DENS4(1200)	5
11: DENS5(1200)	7		
			OK
			<u>OK</u>

<u> </u>	
Purpose	Adjustment/Operation test/chec
Function	Used to check and adjust the op-

Q_12

Function	Used to check and adjust the operation of the main
(Purpose)	charger grid voltage (low mode) in each printer mode
	and the control circuit.
Section	Image process (Photoconductor/Developing/Transfer/
	Cleaning)
	Photo conductor

Operation/procedure

- 1. Touch the exposure mode to be changed. The current set value is highlighted.
- 2. Enter the set value with the 10-key.
- 3. Press the [START] key.

Output is made with the entered value for 30sec, and the display returns to the original state.

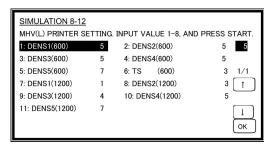
Item		Content	Installation range	Default
1	DENS1(600)	Density 1 (600dpi)	1-8	5 (-450V)
2	DENS2(600)	Density 2 (600dpi)		5 (-450V)
3	DENS3(600)	Density 3 (600dpi)		5 (-450V)
4	DENS4(600)	Density 4 (600dpi)		5 (-450V)
5	DENS5(600)	Density 5 (600dpi)		7 (-500V)
6	TS(600)	Toner save (600dpi)		3 (-400V)
7	DENS1(1200)	Density 1 (1200dpi)		1 (-350V)
8	DENS2(1200)	Density 2 (1200dpi)		3 (-400V)
9	DENS3(1200)	Density 3 (1200dpi)		4 (-425V)
10	DENS4(1200)	Density 4 (1200dpi)		5 (-450V)
11	DENS5(1200)	Density 5 (1200dpi)		7 (-500V)

Min. unit: 25V increment

NO.	Set value	Grid High	Grid Low
1	480	-480V	-350V
2	505	-505V	-375V
3	530	-530V	-400V
4	555	-555V	-425V
5	580	-580V	-450V
6	605	-605V	-475V
7	630	-630V	-500V
8	655	-655V	-525V

- *1. The negative value of the set value corresponds to the grid high output voltage.
- *2. The set values can be selected from the above 8 patterns only.
- *3. The selected pattern determines the grid high voltage and the grid low voltage.

If, for example, the grid high voltage is set to -480V (pattern 1), the grid low voltage is -350V.



8-13	
Purpose	Adjustment/Operation test/check
Function	Used to check and adjust the operation of the
(Purpose)	developing bias voltage in FAX mode and the control
	circuit.
Section	Image process (Photoconductor/Developing/Transfer/
	Cleaning)
	Developer/Toner hopper

Operation/procedure

- 1. Enter the set value with the 10-key.
- 2. Press the [START] key.

Output is made with the entered value for 30sec. and the display returns to the original state.

Setting range	200-550
Default	426

The minimum increment is 2V.

The result of (Set value - 199) / 2 is stored in the EEPROM.

When reading a value from the EEPROM, the value of (EEP value * 2) + 200 is used as the set value.

Therefore, the set value entered must be an even number. If an odd number is entered the entered odd number + 1 is displayed after pressing [START] key.



8-14

Purpose	Adjustment/Operation test/check
Function	Used to check and adjust the operation of the main
(Purpose)	charger grid voltage (high mode) in FAX mode and the
	control circuit.
Section	Image process (Photoconductor/Developing/Transfer/
	Cleaning)
	Photo conductor

Operation/procedure

- 1. Enter the set value with the 10-key.
- 2. Press the [START] key.

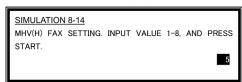
Output is made with the entered value for 30sec. and the display returns to the original state.

		-				
Settin	ng range 1-8		Setting range			
Defau	ılt	5 (480-650)			
NO.	Set valu	Je	Grid Higl	h	Grid Low	
1	480		-480V		-350V	
2	505		-505V		–375V	
3	530		-530V		-400V	
4	555		-555V		-425V	
5	580		-580V		-450V	
6	605		-605V		–475V	
7	630		-630V		-500V	
8	655		-655V		-525V	

Min. unit: 25V increment

- *1. The negative value of the set value corresponds to the grid high output voltage.
- *2. The set values can be selected from the above 8 patterns only.
- *3. The selected pattern determines the grid high voltage and the grid low voltage.

If, for example, the grid high voltage is set to -480V (pattern 1), the grid low voltage is -350V.



8-15

Purpose	Adjustment/Operation test/check	
Function	Used to check and adjust the operation of the main	
(Purpose)	charger grid voltage (low mode) in FAX mode and the	
	control circuit.	
Section	Image process (Photoconductor/Developing/Transfer/	
	Cleaning)	
	Photo conductor	

Operation/procedure

- 1. Enter the set value with the 10-key.
- 2. Press the [START] key.

Output is made with the entered value for 30sec. and the display returns to the original state.

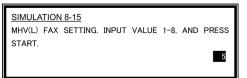
Setting range	1-8
Default	5

NO.	Set value	Grid High	Grid Low
1	480	-480V	-350V
2	505	-505V	-375V
3	530	-530V	-400V
4	555	-555V	-425V
5	580	-580V	-450V
6	605	-605V	-475V
7	630	-630V	-500V
8	655	-655V	-525V

Min. unit: 25V increment

- *1. The negative value of the set value corresponds to the grid high output voltage.
- *2. The set values can be selected from the above 8 patterns only.
- *3. The selected pattern determines the grid high voltage and the grid low voltage.

If, for example, the grid high voltage is set to -480V (pattern 1), the grid low voltage is -350V.



9

9-1	
Purpose	Operation test/check
Function	Used to check and adjust the operation of the load
(Purpose)	(motor) in the duplex section and the control circuit.
Section	Duplex
Item	Operation

Operation/procedure

- 1. Select the operation mode with the 10-key.
- 2. Press the [START] key.

The operation is performed for 30sec, and the display returns to the original state.

_		
Item		Content
1	DMF600	Duplex motor/Duplex 2 motor forward rotation (600dpi)
2	DMF1200	Duplex motor/Duplex 2 motor forward rotation (1200dpi)
3	DMR600	Duplex motor/Duplex 2 motor reverse rotation (600dpi)
4	DMR1200	Duplex motor/Duplex 2 motor reverse rotation (1200dpi)

SIMULATION 9-1

DUPLEX MOTOR CHECK. SELECT 1-4, AND PRESS START.

1:DMF600 2:DMF1200 3:DMR600 2

4:DMR1200

9-4

Purpose	Operation test/check	
Function (Purpose)	Duplex motor RPM setting	
Section	Duplex	
Item	Operation	

Enter the set value with the 10-key.

When the duplex motor setting is made, the duplex 2motor is also set accordingly.

Setting range	1-13
Default	3

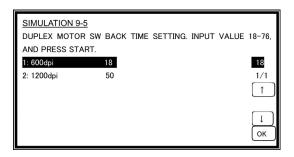


9-5		
Purpose Adjustment		
Function Used to adjust the timing of switching from normal		
(Purpose) rotation to reverse rotation or from reverse rotation to		
	normal rotation of the duplex motor.	

Operation/procedure

- 1. Touch the item to set.
- 2. Enter the set value with the 10-key, and press the [START] key.

Item		Installation range	Default
1	600dpi	18-76	18
2	1200dpi		50



10

10-0		
Purpose Operation test/check		
Function Used to check the operation of the toner motor and i		
(Purpose)	control circuit.	
Section	Image process (Photoconductor/Developing/Transfer/	
	Cleaning)	
Developer/Toner hopper		
Item	Operation	

Operation/procedure

Press the [START] key and operate the toner motor for 30 sec. $\label{eq:start}$





14-0		
Purpose	Clear/Cancel (Trouble etc.)	
Function (Purpose)	Used to cancel excluding the self-diag U2/PF troubles.	
Item	Trouble	Error
On a sure the surface and a su		

Operation/procedure

- 1. Press the [START] key.
- 2. When "1: YES" is selected, troubles other than U2 and PF are canceled. (When "2: NO" is selected, the simulation is canceled.)

SIMULATIO	ON 14			
TROUBLE	CANCELLATION(WITHOUT	U2,	PF).	PRESS
START.				

16

16-0		
Purpose	Clear/Cancel (Trouble	etc.)
Function (Purpose)	Used to cancel the sel	f-diag U2 trouble.
Item	Trouble	Error

Operation/procedure

- 1. Press the [START] key.
- 2. When "1: YES" is selected, U2 trouble is canceled. (When "2: NO" is selected, the simulation is canceled.)

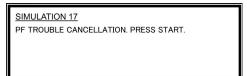


17

17-0		
Purpose	Cancel (Trouble, etc)	
Function (Purpose) Used to cancel the self diag "PF" trouble.		f diag "PF" trouble.
Item	Trouble	Error

Operation/Procedure

- 1. Press the [START] key.
- When "1: YES" is selected, PF trouble is canceled. (When "2: NO" is selected, the simulation is canceled.)



21

21-1		
Purpose Setting		
Function (Purpose)	Used to set the mainte	enance cycle.
Item	Specifications	Counter

- 1. Enter the set value with the 10-key.
- 2. Press the [START] key.

Item	Content
0	5K
1	10K
2	20K
3	25K
4	50K
5	75K (Default)
6	FREE

SIMULATION 21-1 MAINTENANCE CYCLE SETUP. SELECT 0-6, AND PRESS
START.
0:5K
1:10K
2:20K
3:25K
4:50K
5:75K
6:FREE

22

22-1			
Purpose Adjustment/setting/operation data output/check (display/print)			
Function	Used to check the counter value of each section.		
(Purpose)			
Item	Counter		

Operation/procedure

Each counter is displayed.

TOTAL	Total
MAINTENANCE	Maintenance
DEVE	Developer counter *1
DRUM	Drum counter
COPY	Copy counter
PRINTER	Printer counter
IMC	IMC counter
DUPLEX	Duplex counter
OTHERS	The other counters
FAX SEND	FAX Send counter
FAX RCV	FAX receive counter
FAX OUTPUT	FAX print counter

The counter display is in 7 digits.

SIMULATION 22-1							
COUNTER DATA DISPLAY.							
TOTAL	:	nnnnnnn	MAINTENANCE	:	nnnnnnn		
DEVE	:	nnnnnnn	DRUM	:	nnnnnnn		
COPY	:	nnnnnnn	PRINTER	:	nnnnnn		
IMC	:	nnnnnn	DUPLEX	:	nnnnnn		
OTHERS	:	nnnnnn	FAX SEND	:	nnnnnnn		
FAX RCV	:	nnnnnnn	FAX OUTPUT	:	nnnnnnn		

22-2				
Purpose	Adjustment/setting/operation data output/check (display/print)			
Function (Purpose)	Used to check the total numbers of misfeed and troubles. (When the number of misfeed is considerably great, it is judged as necessary for repair. The misfeed rate is obtained by dividing this count value with the total counter value.)			
Item Trouble				

Operation/procedure

Each counter data are displayed.

PAPER JAM	JAM counter
SPF/RSPF JAM	SPF/RSPF JAM counter
TROUBLE	Trouble counter

The counter display is in 7 digits.

SIMULATION 22-2						
	JAM/TROUBLE COUNTER DATA DISPLAY.					
PAPER JAM	:	nnnnnn				
SPF JAM :	:	nnnnnn				
TROUBLE	:	nnnnnn				

22-3

Purpose	Adjustment/setting/operation data output/check (display/print)					
Function (Purpose)	Used to check the misfeed p misfeed at each position. (V misfeed is considerably gre necessary for repair.)	When the number of				
Item	Trouble	, , ,				

Operation/procedure

The misfeed history is displayed in the sequence of recentness by the name of sensors and detectors. Max. 40 items of information can be stored in memory. (The old ones are deleted sequentially.) The trouble section may be determined by the data.

(Jam cause code)

(Jam cause code)					
Item	Jam contents				
TRAY1	1st cassette pick-up miss				
TRAY2	2nd cassette pick-up miss				
TRAY3	3rd cassette pick-up miss				
TRAY4	4th cassette pick-up miss				
BPT	Multi manual feed pick-up miss				
PPD1_ND	Paper-in sensor lead edge jam				
PPD1_ST	Paper-in sensor rear edge jam				
PPD1_DUP	Paper-in sensor reverse jam				
PPD2_ND	Duplex sensor lead edge jam				
PPD2_ST	Duplex sensor rear edge jam				
POD2_ND	Upper stage paper exit lead edge jam				
POD2_ST	Upper stage paper exit rear edge jam				
POD1_ND	Lower stage paper exit lead edge jam				
POD1_ST	Lower stage paper exit rear edge jam				
PINT_SHORT	Abnormality between PS papers.				
PFD2_ND	2nd paper pass lead edge jam				
PFD2_ST	2nd paper pass rear edge jam				
PFD3_ND	3rd paper pass lead edge jam				
PFD3_ST	3rd paper pass rear edge jam				
PFD4_ND	4th paper pass lead edge jam				
PFD4_ST	4th paper pass rear edge jam				
SIZE_SHORT	Duplex short scale error				
FIN_INPDND	Finisher paper entry jam				
FIN_T10D	Finisher escape tray jam				
FIN_T20D	Finisher offset tray jam				
FIN_STPL	Finisher staple tray jam				
PPD1_ND2	Reverse sensor lead edge jam				
PPD1_ST2	Reverse sensor rear edge jam				

SIMULATION 22-3									
PAPER JAM HISTORY.									
XXXXX	xxxxx	xxxxx	xxxxx	XXXXX	xxxxx	XXXXX			
XXXXX	xxxxx	xxxxx	xxxxx	XXXXX	xxxxx	XXXXX			
XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX			

22-4	
Purpose	Adjustment/setting/operation data output/check (display/print)
Function	Used to check the total trouble (self diag) history.
(Purpose)	
Item	Trouble

The trouble error codes are displayed in the sequence of the latest one first. Max. 40 items of information are stored. (Older ones are deleted in sequence.) The machine condition can be estimated by this data.

SIMULATION 22-4								
TROUBLE HISTORY.								
XX-XX	XX-XX	XX-XX	XX-XX	XX-XX	XX-XX			
XX-XX	XX-XX	XX-XX	XX-XX	XX-XX	XX-XX			
XX-XX	XX-XX	XX-XX	XX-XX	XX-XX	XX-XX			

22-0	22-	5
------	-----	---

Purpose	Adjustment/Setting/Check
Function	Used to check the ROM version of each unit (section).
(Purpose)	
Item	Software

Operation/procedure

Used to display the ROM version of each section.

[Display example]

ROM version $1.250 \rightarrow [1.25]$ (up to 2 decimal places)

The display of the protocol monitor and the soft SW follows this display.

S/N	Machine serial number
MCU	Main Control Unit
IMC	IMC
OPE	Panel + Panel label code
PRINTER	PRINTER
NIC	NIC (For the Soft Nic, the Soft Nic version is displayed.
	When the AR-NC5 is installed, the AR-NC5J version is
	displayed.)
FINISHER	FINISHER
FAX	FAX

If it is not installed, "-----" is displayed.

[Label code display]

Contents of "XXX" section on the display below

Panel display	Destination	Selection	code	Panel software support language
JPN	Japan			Japanese, American
				English, English
EFS	SEC	AJ/AM		American English, English,
	SECL	AL/AC		French, Spanish
	SUK	BK/BB		
EEU	SEEG/	GG/GD		English, German, Polish,
	SEA/East			Czech, Hungarian, Greek,
	Europe,			Turkish, Russian, French,
	etc.			Italian, Slovak

Panel	Destination	Selection	code	Panel software support
NEU	SEF/ SEES/ SEIS/SEN, etc.	BG/DG/ BD/DD		language English, German, French, Spanish, Dutch, Italian, Portuguese, Swedish, Norwegian, Finnish,
	SCA/SCNZ Distributor	BA/BN		Danish American English, English, French, Spanish
CHN	SOCC	BZ	UE5	Simplified Chinese, American English, English
TWN	Taiwan	BE/BT	UT1	Traditional Chinese (Local support), American English, English
EFS *1	Special countries			American English, English, French, Spanish, Hebrew (Local support)

*1: Display at the current state

	ATION 22-5 ERSION DATA DISPLAY.	
S/N	:000000000	
MCU	:00.00	
IMC	:00.00	
OPE	:00.00 XXX	Panel label code
PRINTE	R:00.00	
NIC	:00.00	
FINISHE	:R:00.00	
FAX	:00.00	

22-6			
Purpose	Adjustment/setting/operation data output/check		
	(display/print)		
Function	Used to print each key operator setting, the account		
(Purpose)	information, and the machine adjustment values.		
Item	Data	Setting/adjustment data	

Operation/Procedure

(Initial screen)

The currently set value is highlighted beside the adjustment item.

- 1. Select the adjustment item with the 10-key.
- Press the [START] key.
 - The display is shifted to the copy menu and the set value is stored.
- 3. Select the paper feed tray and the print density.
- 4. Press the [START] key.

Copying is started. (Printing at 1200dpi cannot be made.)

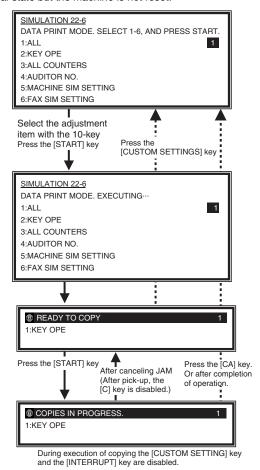
After canceling a jam (After picking up, the [C] key is invalid.)

When the other information is repeatedly printed, the display may show the message, "Remove original from original table." However, the operation is performed normally.

	Item	Content
1	ALL	All lists group print
2	KEY OPE	Key operator information list
3	ALL COUNTERS	List of total number of prints
4	AUDITOR NO.	Department number list
5	MACHINE SIM SETTING	Machine simulation setting list
6	FAX SIM SETTING*1	FAX simulation setting list (Only when the FAX board is installed. The display does not go to the print data transfer display, but to the FAX SIM menu.)

- * When the IMC board is not installed, key input is disabled.
- * Duplex print cannot be made.
- * For the FAX SIM setting list, the display and the operating procedures differ.

Note: When the simulation is canceled, the display returns to the original state but the machine is not reset.

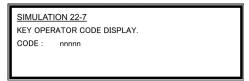


22-7

Purpose	User data output/Check (Display/Print)	
Function	Used to display the key operator code. (Use when the	
(Purpose)	customer key operator code is forgotten.)	
Item	Data	User data

Operation/procedure

Used to display the key operator code.



22-8

Purpose	Adjustment/setting/operation data output/check (display/print)
Function	Used to display the original, staple counter.
(Purpose)	
Item	Counter

Operation/procedure

Each counter is displayed.

SPF	SPF/RSPF counter
SCAN	Scan counter
STAPLE	Stapler counter

The counter display is in 7 digits.

SIMULATION 22-8

ORG./STAPLE COUNTER DATA DISPLAY.

SPF : nnnnnnn SCAN : nnnnnnn STAPLE : nnnnnnn

22-9

Purpose	Adjustment/setting/operation data output/check (display/print)
Function	Used to check the number of use of each paper feed
(Purpose)	section. (the number of prints)
Section	Paper feed
Item	Counter

Operation/procedure

Used to display each paper feed counter.

BYPASS	Manual feed counter	TRAY3	Tray 3 counter
TRAY1	Tray 1 counter	TRAY4	Tray 4 counter
TRAY2	Tray 2 counter		

The counter display is in 7 digits.

SIMULATION 22-9
PAPER FEED COUNTER DATA DISPLAY.
BYPASS: nnnnnnn TRAY1: nnnnnnn
TRAY2: nnnnnnn TRAY3: nnnnnnn
TRAY4: nnnnnnn

22-10

22-10			
Purpose	Adjustment/setting/operation data output/check		
	(display/print)		
Function	Used to check the system configulation.		
(Purpose)			
Item	Specifications	Option	

Operation/procedure

The detected machine composition is displayed.

(The job separator cannot be detected. Based on SIM 26-1 setting.)

	· · · · · · · · · · · · · · · · · · ·
Item	Display items
SPEED	23CPM/27CPM/26CPM
DF	NONE/[1: SPF]/[2: RSPF]
OUTPUT	NONE/[3: Finisher]/[4: Job separator]
CASETTE1	NONE/[5: One-step paper feed unit]
CASETTE2	NONE/[6: Two-step paper feed unit]
IMC MEM	NONE/Expansion memory capacity (MB)
PRINTER	NONE/[7: PRINTER]
PS3	NONE/[8: PS3]
NIC	NONE/[9: NIC]
SCANNER	NONE/[10: SCANNER]
FAX	NONE/[11: FAX]
FAX MEM	NONE/Memory capacity (MB)
HAND SET	NONE/[12: Handset]

NONE: When it is not installed, "-----" is displayed.

[]: Shows the product code in the list below.

No.	Item	Model code
1	RSPF	AR-RP7
2	Finisher	AR-FN5N
		AR-F14 (Saddle finisher)
3	Job separator	AR-TR3
4	1 tray paper feed unit	AR-D21 (*1)
5	2 tray paper feed unit	AR-D22 (*1)
6	PRINTER	AR-P17
7	PS3	AR-PK1
8	NIC	AR-NC5J
9	SCANNER	AR-NS2
10	FAX	AR-FX7
11	Handset	AR-HN4

^{*1:} The number of installed units is displayed beside the model code.

For the cassettes, only the option cassette is displayed.

For the job separator, the printer, and the PS3, which are provided as standard provision, and when the GDI is installed, they are displayed as STANDARD.

For the scanner, however, even though it is a standard unit, its model name is displayed. For the NIC, when the SoftNic is installed, it is not displayed. When the NIC board is installed, its model name is displayed.

SIMULATION 22-10 SYSTEM INFORMATION. SPEED : XXXXXXX DF : XXXXXXX OUTPUT : XXXXXXX CASETTE1: XXXXXXX CASETTE2: XXXXXXX IMC MEM: XXXXXXX PRINTER: XXXXXXX PS3 : XXXXXXX NIC : XXXXXXX SCANNER: XXXXXXX : XXXXXXX FAX MEM: XXXXXXX HAND SET: XXXXXXX

22-11

Purpose	Adjustment/setting/operation data output/check (display/print)	
Function (Purpose)	Used to display the FAX send/receive counter (FA reception and print counter).	
Section	FAX	
Item	Counter	

Operation/procedure

Used to display the FAX send/receive counter.

FAX SEND PAGE/TIME	FAX send page and time	
FAX RECEIVE PAGE/TIME	FAX receive page and time	
FAX OUTPUT	FAX output (number of print)	

The counter display is in 7 digits.

Note: Executable only when the FAX is installed.

22-12

Purpose	Adjustment/setting/operation data output/check (display/print)		
Function	Used to check the misfeed positions and the number of		
(Purpose)	misfeed at each position. (When the number of		
	misfeed is considerably great, it can be judged as		
	necessary for repair.)		
Section	SPF/RSPF		
Item	Trouble Misfeed		

Operation/procedure

Used to display the SPF/RSPF jam history data sequentially from the latest one.

Forty SPF/RSPF jam histories are displayed sequentially from the latest

			Paper Reached/
Error code	Name	Sensor name	Not Reached to
			the sensor
DFD_ND	SPF/RSPF paper in	SPF P-IN	Not Reached
	lead edge jam	sensor	
DFD_ST	SPF/RSPF paper in	SPF P-IN	Reached
	rear edge jam	sensor	
RDD_ND	SPF/RSPF paper	SPF P-IN	Reached,
	out lead edge jam	sensor	P_OUT Not
			Reached
RDD_ST	SPF/RSPF paper	SPF P-OUT	Reached, P_IN
	out rear edge jam	sensor	passed (OFF)
JAM_REV	SPF/RSPF duplex	SPF P-IN	Not Reached
	reverse jam	sensor	(Paper after
			reversing)
ORG_SHORT	SPF/RSPF short	SPF P-IN	Passed (OFF at
	size error	sensor	JAM)
ORG_LONG	SPF/RSPF long	SPF P-OUT	Reached
	size error	sensor	
		SPF P-IN	Reached
		sensor	

SIMULA	ATION 2:	<u>2-12</u>				
SPF JAI	м ніѕто	RY.				
XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX
XXXXX	XXXXX	xxxxx	XXXXX	XXXXX	XXXXX	XXXXX
XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX

22-13

Purpose Adjustment/setting/operation data output/check			
•	(d'a - 1 1 2 - 1)		
	(display/print)		
Function	Used to display the CRUM type.		
i diletion	Osca to display the Orlow type.		
(Purpose)			
Item Specifications			

Operation/Procedure

Used to display the CRUM type.

Item	Content
00	Not fixed.
01	AR-A
02	AR-B
03	AR-C
04	DM (VER)
05	DM (WEB)
06	CHINA
99	Conversion completed.



22-19

Purpose	Adjustment/setting/operation data output/check (display/print)	
Function (Purpose)	Used to display the scanner counter in the network scanner mode.	
Section	Network scanner	
Item	Counter	

Operation/procedure

Used to display the scanner counter.

SCANMODE	Scanner mode counter
----------	----------------------

The counter display is in 7 digits.

SIMULATION 22-19
SCAN MODE COUNTER DATA DISPLAY.
SCANMODE: nnnnnnn

24

24-1		
Purpose	Data clear	
Function	Used to clear the misfeed counter, the misfeed history,	
(Purpose)	(Purpose) the trouble counter, and the trouble history. (The	
	counters are cleared after completion of maintenance.)	
Section	Memory	
Item	Counter	

Operation/procedure

Jam/trouble counter is cleared individually. (The history of each counter is deleted when clearing)

- 1. Select the counter to be cleared with the 10-key.
- Press the [START] key.The confirmation menu is shown.
- 3. Select "1: YES."
 - 1: YES (Cleared)
 - 2: NO (Not cleared) (Default)

	Item	Content	
1	JAM	JAM counter/JAM history	
2	SPF JAM	SPF/RSPF JAM counter/SPF/RSPF JAM history	
3	TROUBLE	Trouble counter/Trouble history	



24-2

Purpose	Data clear	
Function (Purpose)	Used to clear the number of use (the number of prints) of each paper feed section.	
Section	Paper feed	
Item	Counter	

Operation/procedure

Used to clear each paper feed counter individually.

- 1. Select the counter to be cleared with the 10-key.
- 2. Press the [START] key. The confirmation menu is shown.
- 3. Select "1: YES."
 - 1: YES (Cleared)
 - 2: NO (Not cleared) (Default)

Item		Content	
1	BYPASS	Manual feed counter	
2	TRAY1	Tray 1 counter	
3	TRAY2	Tray 2 counter	
4	TRAY3	Tray 3 counter	
5	TRAY4	Trav 4 counter	

SIMULATION 24-2			
PAPER FEE	D COUNTE	R DATA CLEAR. S	SELECT 1-5, AND
PRESS STA	RT.		
1:BYPASS	2:TRAY1	3:TRAY2	2
4:TRAY3	5:TRAY4		

24-	-3

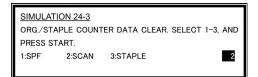
Purpose	Data clear
Function	Used to clear the number data of use of the staple, the
(Purpose) SPF/RSPF and scanning.	
Section	Transport/Finisher
Item	Counter

Operation/procedure

Used to clear the original and staple counters individually.

- 1. Select the counter to be cleared with the 10-key.
- 2. Press the [START] key.
 The confirmation menu is shown.
- 3. Select "1: YES."
 - 1: YES (Cleared)
 - 2: NO (Not cleared) (Default)

Item		Content
1	SPF	SPF/RSPF counter
2	SCAN	Scan counter
3	STAPLE	Stapler counter



24-4

Purpose Data clear	
Function (Purpose) Used to reset the maintenance counter.	
Item	Counter

Operation/procedure

- 1. Press the [START] key. The confirmation menu is shown.
- 2. Select "1: YES."
 - 1: YES (Cleared)
 - 2: NO (Not cleared) (Default)

SIMULATION 24-4
MAINTENANCE COUNTER DATA CLEAR. PRESS START.

24-5

Purpose	Data clear	
Function (Purpose)	Used to reset the developer counter. (The developer counter of the DV unit which is installed is reset.)	
Section	Image process (Photoconductor/Developing/Transfer/Cleaning)	
	Developer/Toner hopper	
Item	Counter Developer	

Operation/procedure

- Press the [START] key.
 The confirmation menu is shown.
- 2. Select "1: YES."
 - 1: YES (Cleared)
 - 2: NO (Not cleared) (Default)

SIMULATION 24-5 DEVELOPER COUNTER DATA CLEAR. PRESS START. 24-6

Purpose	Data clear	
Function (Purpose)	Used to clear the copy counter.	
Item	Counter	Copier

Operation/procedure

- Press the [START] key.
 The confirmation menu is shown.
- 2. Select "1: YES."
 - 1: YES (Cleared)
 - 2: NO (Not cleared) (Default)

SIMULATION 24-6
COPY COUNTER DATA CLEAR. PRESS START.

24-7

Purpose	Data clear
Function	Used to clear the OPC drum (membrane decrease)
(Purpose)	correction counter. (This simulation is executed when
	the OPC drum is replaced.
Section	Image process (Photoconductor/Developing/Transfer/
	Cleaning)
	Photo conductor
Item	Counter

Operation/procedure

- Press the [START] key.
 The confirmation menu is shown.
- 2. Select "1: YES."
 - 1: YES (Cleared)
 - 2: NO (Not cleared) (Default)

SIMULATION 24-7 DRUM COUNTER DATA CLEAR. PRESS START.

24-9

Purpose	Data clear		
Function	Used to clear the printer counter and other counters.		
(Purpose)	(The counter is cleared after completion of		
	maintenance.)		
Section	Printer		
Item	Counter	Printer	

Operation/procedure

- 1. Select the counter to be cleared with the 10-key.
- 2. Press the [START] key.
 The confirmation menu is shown.
- 3. Select "1: YES."
 - 1: YES (Cleared)
 - 2: NO (Not cleared) (Default)

	Item	Content
1	PRINTER	Printer counter
2	IMC	IMC counter
3	DUPLEX	DUPLEX counter
4	OTHERS	The other counters

SIMULATION 24-9
PRINTER/OTHERS COUNTER DATA CLEAR. SELECT 1-4,
AND PRESS START.

1:PRINTER 2:IMC 3:DUPLEX 4:OTHERS 2

24-10

Purpose	Data clear
Function (Purpose)	FAX counter data clear
Section	FAX
Item	Counter

Operation/procedure

- Select the "3: NUMBER OF PRINTS", and press the [START] key. The confirmation menu is shown.
- 2. Select "1: YES."
 - 1: YES (Cleared)
 - 2: NO (Not cleared) (Default)

Item		Content
1	FAX SEND	FAX send page and time
	(PAGE & TIME)	
2	FAX RECEIVE	FAX receive page and time
	(PAGE & TIME)	
3	FAX OUTPUT	FAX output (number of prints)

Note: Executable only when the FAX is installed.

SIMULATION 24-10 FAX OUTPUT COUNTER DATA CLEAR, PRESS START.

24-15

Purpose	Data clear
Function	Used to clear the scanner counter in the network
(Purpose)	scanner mode.
Section	Scanner section
Item	Counter

Operation/procedure

- Press the [START] key.
 The confirmation menu is shown.
- 2. Select "1: YES."
 - 1: YES (Cleared)
 - 2: NO (Not cleared) (Default)

The scanner mode counter and the number of send of the scanner are cleared.

- * The simulation to perform communication with the PCL is inhibited until Notice Page storing is completed. (Only when the serviceman call error occurs.)
- * When in other than the serviceman call error, entering the simulation is not allowed from the system check display.

SIMULATION 24-15
SCAN MODE COUNTER DATA CLEAR. PRESS START.

25

25-1

20 1		
Purpose	Operation test/check	
Function	Used to check the operation of the main drive	
(Purpose)	(excluding the scanner section) and to check the operation of the toner concentration sensor. (The toner concentration sensor output can be monitored.) (To be supported for Ver.00.72 or later)	
Section	DRIVE	
Item	Operation	

- 1. Select the speed (600dpi, 1200dpi) with the 10-key.
- 2. Press the [START] key.

The main motor rotates to start monitoring the toner density control sensor. (3min operation)

After execution, interruption cannot be made for about 7 sec. ([CA] key and [CUSTOM SETTINGS] key are disabled.)

* Even in toner end error, if there is no other error (including cover open) after turning on the power, this simulation can be performed.

SIMULATION 25-1

MAIN MOTOR CHECK. SELECT 1-2, AND PRESS START.

1:600dpi

2:1200dpi

25-2	
Purpose	Setting
Function	Used to make the initial setting of toner concentration
(Purpose)	when replacing developer.
Section	Image process (Photoconductor/Developing/Transfer/
	Cleaning)
	Developer/Toner hopper

Operation/procedure

- 1) Open the cover with the power OFF.
- 2) Turn on the power. (Since the cover is open, the machine does not perform initializing.)
- 3) Install the developing tank.
- 4) Execute the simulation.
- 5) Enter SIM 25-2. ([25] \rightarrow [START] key \rightarrow [2] \rightarrow [START] key)
- 6) Open the cover just before starting the simulation.
- 7) Press the [START] key.

The main motor rotates. After stirring for 3 min, the toner density control sensor value is sampled 16 times, and the average value is stored.

When "EE-EU" or "EE-EL" after completion, an error display is shown.

Note: After completion of execution, be sure to press the [CA] key to cancel the simulation.

[CRUM-related error cancel procedure]

• When "CRUM DEVICE ERROR" is displayed:

Error content: Occurs in case of a communication error

between the machine and CRUM.

Cancel procedure: Reset with [CA] key and cancel with SIM 16.

"CRUM DATA ERROR"

Error content: CRUM identification error, CRUM model error,

CRUM type error, CRUM destination error

Cancel procedure: Install the CRUM which is satisfactory with the

machine setup, reset with the [CA] key, and

execute SIM 25-2 again.

• "DEVE UNIT NONE"

Error content: Occurs when the developing unit is not installed

in an AR model.

Cancel procedure: It returns to the state before execution of auto

developer adjustment. It is canceled by the operations of Cover open \rightarrow Developing unit installation \rightarrow Cover close. Therefore, developer adjustment is started by pressing [START] key.

"TONER UNIT NONE"

Error content: Occurs when the CRUM is not installed in a DM

model.

Cancel procedure: It returns to the state before execution of auto

developer adjustment. It is canceled by the operations of Cover open \rightarrow CRUM installation \rightarrow Cover close. Therefore, developer adjustment is

started by pressing [START] key.

"EU ERROR"

Error content: Occurs when the toner concentration reference

value calculated in developer adjustment finally

is 179 or greater.

Cancel procedure: Reset with [CA] key and execute SIM 25-2 again.

"EL ERROR"

Error content: Occurs when the toner concentration reference

value calculated in developer adjustment finally

is 77 or smaller.

Cancel procedure: Reset with [CA] key and execute SIM 25-2 again.



26

26-1			
Purpose	Setting		
Function	Used to set whether the job separator is installed or		
(Purpose)	not. (Since this cannot be detected by hardware		
	detection, it is set in this simulation.)		
Item	Specifications	Option	

Operation/procedure

- 1. Select the set value with the 10-key.
- 2. Press the [START] key.

Set value	Connection option
0	None (default)
1	Job separator provided.



Purpose Setting Function (Purpose) Size is made or not. Section Paper feed

Operation/procedure

Item

- Select the item with the 10-key and press the [START] key. Used to set the automatic size detection.
- 2. Set whether automatic detection of paper size is made or not with the 10-key.

1:B4/LG,FC	Setting to detect B4/Legal as FC	
	0: B4 legal is detected as B4 legal. (Default)	
	1: B4 legal is detected as FC.	
2:A4<->LT	This setup detects Letter as A4 in the inch series and	
	A4 as Letter in the AB series.	
	0: Detection disable (Default)	
	1: Detection valid	

8.5" x 13" detection valid/invalid setup

Specifications

Set value	Setup	Remarks
0	Detection invalid	Default
1	Detection valid	

Detection size when 8.5" x 13" document/paper is used.

				Set v	/alue
	Employed unit	Destination	Document size	0	1
				(Invalid)	(Valid)
Document	Document table/RSPF	AB series (Japan)	FC (8.5" x 13")	B4	B4
			LG (8.5" x 14")	B4	B4
			B4	B4	B4
		AB series	FC (8.5" x 13")	B4	FC (8.5" x 13")
			LG (8.5" x 14")	B4	FC (8.5" x 13")
			B4	B4	FC (8.5" x 13")
		Inch series	FC (8.5" x 13")	LG (8.5" x 14")	FC (8.5" x 13")
			LG (8.5" x 14")	LG (8.5" x 14")	FC (8.5" x 13")
			B4	WLT (11" x 17")	WLT (11" x 17")
Paper	Machine paper feed cassette	All destinations	_	Set with key	operations.
	Manual paper feed tray	Japan (AB series)	FC (8.5" x 13")	LG (8.5" x 14")	LG (8.5" x 14")
			LG (8.5" x 14")	LG (8.5" x 14")	LG (8.5" x 14")
			B4	B4	B4
		AB series	FC (8.5" x 13")	LG (8.5" x 14")	FC (8.5" x 13")
			LG (8.5" x 14")	LG (8.5" x 14")	FC (8.5" x 13")
			B4	B4	B4
		Inch series	FC (8.5" x 13")	LG (8.5" x 14")	FC (8.5" x 13")
			LG (8.5" x 14")	LG (8.5" x 14")	FC (8.5" x 13")
			B4	B4	B4

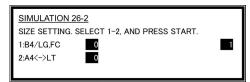
A4/LT (8.5" x 11") detection enable/disable setup

In the inch series, Letter is detected as A4; in the AB series, A4 is detected as Letter.

Set value	Setup	Remarks
0	Detection invalid	Default
1	Detection valid	

Detection size when A4/LT (8.5" x 11") document/paper is used.

				Set v	/alue
	Employed unit	Destination	Document size	0	1
				(Invalid)	(Valid)
Document	Document table/RSPF	AB series	A4	A4	LT (8.5" x 11")
			LT (8.5" x 11")	A4	LT (8.5" x 11")
		Inch series	A4	LT (8.5" x 11")	A4
			LT (8.5" x 11")	LT (8.5" x 11")	A4
Paper	Machine paper feed cassette	All destinations	_	Set with key	
	Manual paper feed tray	All destinations	_	Regardless of the	simulation setup.



26-3	26-3			
Purpose	Setting			
Function	Used to set the specifications of the auditor. Setting			
(Purpose)	must be made depending on the use condition of the			
	auditor.			
Section	Auditor			
Item	Specifications			

Operation/procedure

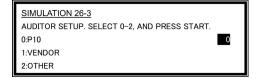
Select the mode corresponding to the auditor specification mode with the 10-key. $\,$

		Item	Content	Setting range	Default
	0	P10	Built-in auditor mode	0-2	0
Ī	1	VENDOR	Coin vendor mode		
	2	OTHER	Others		

When "1: VENDOR (Coin vendor mode)" is set, the following three items of key operation setting are changed.

1) Set the LCD backlight change inhibit to "1: OFF (Enable)."

- 2) When SIM 26-6 destination setting is set to "0: Japan," duplex copy inhibit setting must be set to "0: ON (Inhibit)."
- 3) Set the sort automatic selection to "0: OFF (Disable)."



26-5	
Purpose	Setting
Function	Used to set the count mode of the total counter and the
(Purpose)	maintenance counter.

Operation/procedure

Specifications

Item

Used to set the count up number (1 or 2) when an A3/WLT paper passes through. $\,$

Counter

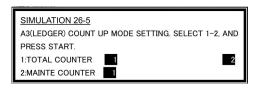
For the drum counter and the developer counter, double count is employed unconditionally.

(Target counter selection)

Item		Content
1	TOTAL COUNTER	Total
2	MAINTENANCE COUNTER	Maintenance

Used to set the count up number of the selected counter.

Item		Item Content		Default
1	1:SINGLE COUNT	Single count	1-2	2
2	2:DOUBLE COUNT	Double count		



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26-6	
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Purpose	Setting		
Function	Used to set the specifications depending on the		
(Purpose)	destination.		
Item	Specifications	Destination	

Operation/procedure

Select the destination with the 10-key.

By changing the destination, some other setting items may be changed.

Item		Content	Setting range	Default
0	JAPAN	Japan	0-13	0
1	SEC	SEC		
2	SECL	SECL		
3	SEEG	SEEG		
4	SUK	SUK		
5	SCA	SCA		
6	SEF	SEF		
7	INEG	EX inch series		
8	ABEG	EX AB series		
9	INEF	EX inch series (FC)		
10	ABEF	EX AB series (FC)		
11	CHINESE	China		
12	TAIWAN	Taiwan		
13	SEEG2	SEEG2		

SIMULATION 26-6		
DESTINATION SETU	JP. SELECT 0-13, AND PRESS START.	
0:JAPAN	1:SEC 0	
2:SECL	3:SEEG	
4:SUK	5:SCA	
6:SEF	7:INEG	
8:ABEG	9:INEF	
10:ABEF	11:CHINESE	
12:TAIWAN	13:SEEG2	

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Purpose	Setting
Function (Purpose)	Network scanner trial mode setting
Section	Scanner

Operation/procedure

Enter the set value with the 10-key and press the [START] key.

Item		Content	Default
0	END	Trail mode cancel	0
1	START	Trial mode start	

If the trial scanner counter value is less than 500, the trial mode setting can be repeatedly made. If the scanner trial counter value is 500 or more, the trial mode setting cannot be made.

When the scanner is not set and the scanner trial counter value is less than 500, if "1" is entered in SIM26-10, the trial mode setting is started. If "0" is entered in SIM26-10, the trial mode setting is canceled.

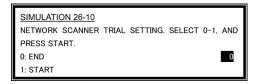
After recognition of the scanner, the trial mode setting cannot be made. (Entering "1" is invalid and a beep sound is produced.)

When this setting is made, the machine must be reset after canceling the simulation. When "1: Trial mode start" is selected, the scanner function is valid. If "0: Trial mode cancel" is selected, the scanner function is invalid.

When setting is invalid (when the scanner is recognized or the scanner trial counter value is 500 or more) in the key operations of the trail mode setting, an invalid sound (beep sound) is made. In the other case, a valid sound is made.

* When the scanner trial counter value is changed from 500 or more to less than 500, the trail setting is changed from "END" to "SETTING START."

Note: Executable only when the PCL/SCANNER is installed.



26-	12)

Purpose	Setting
Function	Used to input the Software Key for E-MAIL RIC.
(Purpose)	
Section	E-MAIL RIC
Item	Specifications

Operation/procedure

The current setup is displayed with ON or OFF.

Enter an input (20 digits) of the E-MAIL RIC soft key with the 10-key and press the [START] key, and the collating result is displayed with OK or NG.

After canceling the simulation, if OK, the E-MAIL RIC function is enable; if NG, the E-MAIL RIC function is disabled.

This setting must be reset after the simulation cancel.

* If recognition is OK, the E-Mail RIC can be set to Enable. If the FAX is installed, however, the operation cannot be made actually.

Note: Executable only when the PCL/NIC is installed.



26-1

Purpose	Setting
Function	Used to input the Software Key for the PS extention kit.
(Purpose)	
Section	Printer
Item	Specifications

Operation/procedure

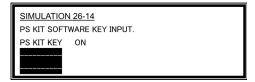
The current setup is displayed with ON or OFF.

Enter an input (20 digits) of the PS expansion kit soft key with the 10-key and press the [START] key, and the collating result is displayed with OK or NG.

After canceling the simulation, if OK, the PS expansion kit function is enable; if NG, the PS expansion kit function is disabled.

This setting must be reset after the simulation cancel.

Note: Executable only when the PCL/PS3 is installed.





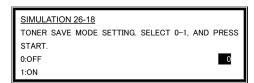
Purpose	Setting		
Function	Used to set enable/disable of toner save operation.		
(Purpose)			
Item	Specifications	Operation mode (Common)	

Operation/procedure

Input the set value with the 10-key and press the [START] key.

	Item Content		Setting range	Default
0	OFF	Disable	0-1	0
1	ON	Enable		

Note: Setup is allowed only for Japan and UK.



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Purpose	Setting		
Function (Purpose)	Used to set the specification (language display) for the destination.		
Item	Specifications		

Operation/procedure

Select the display language (language code) with the 10-key according to the table below, and press the [START] key.

This setup varies in connection with SIM 26-6 (Destination setup).

		Language	ASIC	
Item		code	expression	Remarks
0	JAPANESE	ia	6A 61	
1	ENG.US	en	65 6E	
2	ENG.UK	gb	67 62	
3	FRENCH	fr	66 72	
4	GERMAN	de	64 65	
5	ITALY	it	69 74	
6	DUTCH	nl	6E 6C	
7	SWEDISH	SV	73 76	
8	SPANISH	es	65 73	
9	PORTUGUESE	pt	70 74	
10	TURKISH	tr	74 72	
11	GREEK	el	65 6C	
12	POLISH	pl	70 6C	
13	HUNGARIAN	hu	68 75	
14	CZECH	CS	63 73	
15	RUSSIAN	ru	72 75	
16	FINNISH	fi	66 69	
17	NORWEGIAN	no	6E 6F	
18	DANISH	da	64 61	
19	CHINESE	zh	7A 68	
20	TAIWANESE	tw	74 77	Traditional Chinese
				supported locally
21	SLOVAK	sk	73 6B	
22	HEBREW	he	68 65	Supported locally

SIMULATION 26-22				
LANGUAGE SET	TING. SELECT 0-2	2, AND PRESS START.		
0:JAPANESE	1:ENG.US	2:ENG.UK 0		
3:FRENCH	4:GERMAN	5:ITALY		
6:DUTCH	7:SWEDISH	8:SPANISH		
9:PORTUGUESE	10:TURKISH	11:GREEK		
12:POLISH	13:HUNGARIAN	14:CZECH		
15:RUSSIAN	16:FINNISH	17:NORWEGIAN		
18:DANISH	19:CHINESE	20:TAIWANESE		
21: SLOVAK	22:HEBREW			

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Purpose	Setting	
Function (Purpose)	Used to set ON/OFF of the heater lamp slow-up control conforming to the CE mark control.	
Item	Specifications	Operation mode (Common)

Operation/procedure

Input the set value with the 10-key and press the [START] key. $\label{eq:start} % \begin{subarray}{ll} \end{subarray} % \begin{subarray}{ll} \e$

This setup varies in connection with SIM 26-6 (Destination setup).

		Default	
Item		Japan, SEC, SECL, SCA, SEF, Taiwan	Others
0	OFF	0	1
1	ON		

SIMULATION 26-30
CE MARK CONTROL SETTING. SELECT 0-1, AND PRESS START.
0.0FF
1:0N

26-35

Purpose	Setup
Function	Used to set whether the same continuous troubles are
(Purpose)	displayed as one trouble or the series of troubles with
	SIM 22-4 when the same troubles occur continuously.
Item	Specifications

Operation/procedure

Enter the set value with 10-key, and press [START] key.

	Item Content		Default
0	ONCE	When two or more troubles occur, only one	0
		is registered.	
1	ANY	All the troubles occurred are registered.	

SIMULATION 26-35
TROUBLE MEMORY MODE SETTING. SELECT 0-1, AND PRESS START.
0:ONCE
1:ANY

26-36

Purpose	Setting	
Function	Used to set whether the machine is stopped or not	
(Purpose)	when the maintenance counter life is expired.	
Item	Operation	

Operation/procedure

Input the set value with the 10-key and press the [START] key.

Item		Content	Default
0	STOP	Stop	1
1	NON STOP	Non stop	

Note: Executable only with SRU (AR models).

SIMULATION 26-36

MAINTENANCE COUNTER LIFE OVER SETTING. SELECT 0-1, AND PRESS START.
0:STOP
1:NON STOP

26-41

Purpose	Setting
Function	Used to set ON/OFF of the automatic magnification
(Purpose)	ratio selection (AMS) when setting the binding
	function.
Item	Operation

Operation/procedure

Enter the set value with the 10-key, and press the [START] key.

Item		Content	Default
0	OFF	AMS is not set automatically.	0
1	ON	AMS is set automatically.	

SIMULATION 26-41
PAMPHLET MODE AMS SETTING. SELECT 0-1, AND PRESS START.
0:OFF
1:ON

26-46

Purpose	Setting
Function	Used to set whether to meet with the output direction of
(Purpose) images regardless of the mode when installing the	
	finisher.
Item	Operation

Operation/procedure

When this setting is made, the image output direction in the staple mode and that in the normal mode become the same. Therefore, the user who uses printed paper (logo, house style, etc) need not change the original direction in the staple mode. (When the finisher is used, images are rotated 180 degrees in the staple mode.)

Enter the set value with the 10-key, and press the [START] key.

Ī		Item	Content	Default
	0	OFF	No setting (The output image direction is changed in the staple mode of the finisher.)	0
	1	ON	Setting (The output image direction is the same regardless of stapling or not.)	

Note: Executable only when the finisher is installed.

SIMULATION 26-46
OUT DIRECTION SETTING. SELECT 0-1, AND PRESS START.
0:OFF
1:ON

26-50

Purpose	Setting
Function	Used to set ON/OFF of the black and white reversion
(Purpose)	function.
Item	Operation

Operation/procedure

Enter the set value with the 10-key, and press the [START] key.

Item		em Content	
0 ON		Enable	0
1	OFF	Disable	

SIMULATION 26-50 B/W REVERSE SETTING. SELECT 0-1, AND PRESS START.
0:ON
1:OFF

26-57

Purpose	Setting
Function (Purpose)	Used to set the model code.
Item	Operation

Operation/procedure

Input the set value with the 10-key and press the [START] key.

	Item	Default
1	AR-M236	1
2	AR-M276	
3	AR-M237	
4	AR-M277	
5	AR-266S	
6	AR-266G	
7	AR-266FG	
8	AR-266FP	

SIMULATION 26-57						
MACHINE CODE SETTING. SELECT 1-8, AND PRES				PRESS		
START.						
1:AR-M236	6					1
2:AR-M276	2:AR-M276					
3:AR-M237						
4:AR-M277						
5:AR-266S						
6:AR-266G						
7:AR-266FG						
8:AR-266F	P					

26-60

Purpose	Setting
Function	Used to set enable/disable of the FAX mode key when
(Purpose) FAX is not installed. (When FAX is installed, the	
	mode is enabled regardless of this setup.)
Item	Operation

Operation/procedure

Input the set value with the 10-key and press the [START] key.

			Default		
Item Content		Content	JAPAN,		
		Content	SEC, SECL,	Others	
			SUK, SCA		
0	ON	Effective (The message with	0	1	
		FAX uninstalled is displayed.)			
1	OFF	Disable (Error Beep)			

This setup varies in connection with SIM 26-6 (Destination setup).

SIMULATION 26-60

FAX KEY SETTING. SELECT 0-1, AND PRESS START KEY.
0:ON
1:OFF

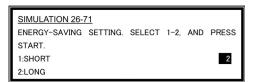
26-71

Purpose	Setting
Function (Purpose)	In the power save time setting, the pre-heat (pre-heat mode setting) and the auto power shut off time can be set to the short time setup (pre-heat: 1 min, auto power shut off: 4 min) and the long time setup (pre-heat:
	15min, auto power shut off: 60min).

Select the short time setup or the long time setup of the pre-heat time and the auto power shut off time with the 10-key, and press the [START] key.

Item	Content	Default
1	Pre-heat: 1min, auto power shut off: 4min	2
2	Preheat: 15min, auto power shut off: 60min	

Note: When the sub code 71 is entered to display the setting menu, the default values are always displayed. (However,the default time is not always set.)



2	7	-	1	

21 1					
Purpose	Setting				
Function	Used to set PC/MODEM communication trouble (U7-				
(Purpose)	00) detection Yes/No.				
Section	Communication (RIC/MODEM)				
Item	Specifications Operation mode				
	(Common)				

Operation/procedure

Input the set value with the 10-key and press the [START] key.

Item		Content	Default
0	OFF	OFF In case of the communication trouble, U7-00 is	
	not displayed.		
1	ON	In case of the communication trouble, U7-00 is	
		displayed.	

SIMULATION 27-1 DISABLING OF U7-00 TROUBLE. SELECT 0-1, AND PRESS START. 0:OFF 0

27-5

Purpose	Setting
Function (Purpose)	Used to set the tag number.
Item	Data

Operation/procedure

- 1. The currently set number is displayed on the PRESENT column.
- 2. Enter the new tag number (Max. 8 digits) with the 10-key. The entered number is displayed on the NEW column.
- 3. Press the [START] key.

The set value is stored and "PRESENT" is revised.

SIMULATION 27-5 TAG# SETTING. INPUT VALUE, AND PRESS START. PRESENT:



30-1	
Purpose	Operation test/check
Function	Used to display the sensor status attached to the
(Purpose)	machine.
Section	Others
Item	Operation

Operation/procedure

The active sensors and detectors are highlighted.

PS paper detection 1 sensor
PS paper detection 2 sensor
Fusing paper sensor
1st paper exit paper out sensor
Developing cartridge detection sensor
Drum intial detection sensor
Interlock switch (side door)
Shifter home position sensor
2nd paper exit paper out sensor
2nd paper exit full detection sensor
2nd paper exit cover open/close detection sensor
1st paper exit empty detection sensor
Reverse path paper sensor

SIMULA SENSOF						
PPD1H	PPD1L	PPD2	POD1	DVCH	DRST	DSWR1
SFTHP	POD2	TOPF	DSWR0	LOEM	DUP2	

30-2

Purpose	Operation test/check		
Function	Used to display the status of the sensors attached to		
(Purpose)	the standard cassette and the manual feed tray. (Use		
	SIM 4-2 for the option cassettes.)		
	The sensor of an uninstalled cassette is not displayed.		
Section	Paper feed		
Item	Operation		

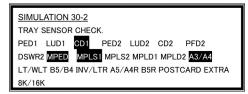
Operation/procedure

The active sensors and detectors are highlighted.

PED1	1st cassette paper empty sensor
LUD1	1st cassette paper upper limit detection sensor
CD1	1st cassette empty sensor
PED2	2nd cassette paper empty sensor
LUD2	2nd cassette paper upper limit detection sensor
CD2	2nd cassette empty sensor
PFD2	2nd cassette paper pass sensor
DSWR2	2nd cassette right door detection sensor
MPED	Manual tray paper empty detection
MPLS1	Manual tray length detection 1
MPLS2	Manual tray length detection 2
MPLD1	Manual feed paper length detection 1
MPLD2	Manual feed paper length detection 2

Width detection size of the manual feed tray (one of them is displayed.) A4/A3, LT/WLT, B5/B4, INV/LTR, A5/A4R, B5R, POSTCARD, EXTRA, 8K/16K

(At detection, highlighted)



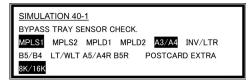


40-1	
Purpose	Operation test/check
Function	Used to check the sensor of the machine manual feed
(Purpose)	tray.
Section	Paper feed
Item	Operation

The active sensors and detectors are highlighted.

MPLS1	Manual tray length detection 1
MPLS2	Manual tray length detection 2
MPLD1	Manual feed paper length detection 1
MPLD2	Manual feed paper length detection 2

Width detection size of the manual feed tray (one of them is displayed.) A4/A3, LT/WLT, B5/B4, INV/LTR, A5/A4R, B5R, POSTCARD, EXTRA, 8K/16K



4	O	-2
-	v	

Purpose	Adjustment
Function	Used to adjust the manual paper feed tray paper width
(Purpose)	detector detection level.
Section	Paper feed
Item	Operation

Operation/procedure

The adjustment method is of the 4-point system. Set the guide to Max. (A3/WLetter) position, A4R/Letter R position, A5R/Invoice R position, and Min. position for adjustment.

- 1) Set A3/W Letter and fit the guide, then press the [START] key.
- 2) Set A4R/LetterR and fit the guide, then press the [START] key.
- Set to A5R/INVOICE R and fit the guide, then press the [START] key.
- 4) Narrow the guide at minimum, press the [START] key.
- 5) Set the paper detection width (+), and press the [START] key.
- 6) Set the paper detection width (-), and press the [START] key.

If "FAILED" is displayed in procedure 1), 2), 3), or 4), it is NG of adjustment. Repeat the adjustment.

Middle position adjustment L	Yes	MID-L ADJ.ON	
	No	MID-L ADJ.OFF	
Middle position adjustment S	Yes	NID-S ADJ.ON	
	No	MID-S ADJ.OFF	

AB series

Inch series

SIMULATION 40-2 BYPASS TRAY ADJUSTMENT. A3 PAPER SET, AND PRESS START KEY.

SIMULATION 40-2 BYPASS TRAY ADJUSTMENT. WLT PAPER SET, AND PRESS START KEY.

40-3

Purpose	Adjustment
Function (Purpose)	The AD conversion value of manual feed width detection is displayed.
Section	Paper feed
Item	Operation

Operation/procedure

The AD conversion value of manual feed width detection is displayed.



41

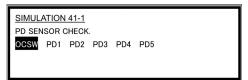
41-1	
Purpose	Operation test/check
Function Used to check the document size detection photo	
(Purpose) sensor.	
Section Others	
Item	Operation

Operation/procedure

The operation status of the sensors and detectors in the original size detection section are displayed. The active sensors and detectors are highlighted.

OCSW	Original cover state	
	Open: Highlighted display	
	Close: Normal display	
PD1 to 5	Original sensor status	
	Without original: Normal display	
	With original: Highlighted display	

For AB series, PD1 to 5 is displayed, for inch series, PD1 to 4.



41-2

Purpose	Adjustment	
Function	Used to adjust the detection level of the document size	
(Purpose)	photo sensor.	
Section	Others	
Item	Operation	

Operation/procedure

Place an A3 (or WLT) document on the document table, and press [START] key with the OC cover open.

The adjustment is performed and the result is displayed.

ocsw	Original cover state
	Open: Highlighted display
	Close: Normal display
1 to 5	PD sensor detection level (Hexadecimal display)

The value in [] shows the threshold value. (Hexadecimal display) For AB series, 1 to 5 is displayed, for inch series, 1 to 4.

During execution of the simulation, "EXECUTING" is displayed.

SIMULATION 41-2 PD SENSOR ADJUNSTMENT. PRESS START.

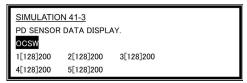
41-3		
Purpose	Operation test/check	
Function	Used to check the light reception level and the	
(Purpose)	detection level of the original size detection photo sensor.	
Section	Others	
Item	Operation	

The detection output level of each sensor is displayed in real time.

OCSW	Original cover state
	Open: Highlighted display
	Close: Normal display
1 to 5	PD sensor detection level (Hexadecimal display)

The value in [] shows the threshold value of 20 degree detection adjustment. (Hexadecimal display)

For AB series, 1 to 5 is displayed, for inch series, 1 to 4.



41-4			
Purpose	Adjustment		
Function	Used to adjust the detection level of OC 20 degrees.		
(Purpose)			
Section Others			
Item	Operation		

Operation/procedure

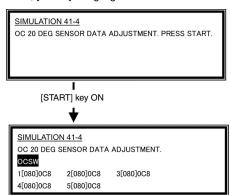
Set the OC cover at 20 degrees detection and press the [START] key. The detection output level of each sensor is displayed in real time.

OCSW	Original cover state
	Open: Highlighted display
	Close: Normal display
1 to 5	PD sensor detection level (Hexadecimal display)

The value in [] shows the threshold value of 20 degree detection adjustment. (Hexadecimal display)

For AB series, 1 to 5 is displayed, for inch series, 1 to 4.

During execution, [EXEC] is highlighted.



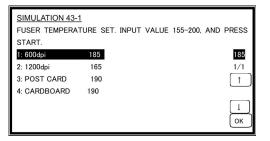
43

43-1		
Purpose	Setting	
Function	used to set the fusing temperature in 600dpi, 1200dpi,	
(Purpose)	or postcard print.	
Section	Fixing (Fusing)	
Item	Operation	

Operation/procedure

- 1. Touch the item to be set.
- 2. Enter the set value with the 10-key.

	Item	Content	Setting range	Default
1	600dpi	600dpi	155-200	190 (Europe)/ 175 (Japan, SEC, SECL)/ 185 (Others)
2	1200dpi	1200dpi	140-200	165
3	POST CARD	Postcard	155-200	190
4	CARDBOARD	Thick paper	155-200	190

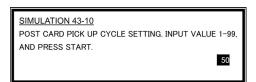


43-10		
Purpose	Setting	
Function Used to set the paper feed cycle timing when printing		
(Purpose) postcards.		
Section	Paper feed	
Item	Operation	

Operation/procedure

Input the set value with the 10-key and press the [START] key.

Setting range	1-99
Default	50



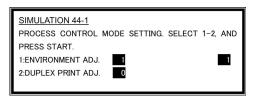
44

44-1	
Purpose	Setting
Function (Purpose)	Used to make various setups in each mode of process control.
Section	Image process (Photoconductor/Developing/Transfer/Cleaning)
Item	Operation

Operation/procedure

Enter the set value with the 10-key, and press the [START] key.

	Item	Content	Default
1	ENVIRONMENT	Environmental correction Allow/	1
	ADJ.	Inhibit (0: Inhibit, 1: Allow)	
2	DUPLEX PRINT ADJ.	Duplex print correction Allow/	0
		Inhibit (0: Inhibit, 1: Allow)	



44-34

Purpose	Setting
Function	Used to set the transfer current value in each mode.
(Purpose)	

Operation/procedure

- 1. Touch the item to be set.
- 2. Enter the set value with the 10-key.

To support an individual necessity in paper and the environment, it is variable in the range of 5 to 30uA in the increment of 1uA in each mode.

When changing +V2, check with +V1 unchanged. If there is any trouble in the half tone image of graphics, keep the relationship between +V1 and +V2 at the default and change it.

When the image quality is deteriorated because the user selects the OHP mode and use other than the recommended OHP, decrease the transfer current to adjust deterioration of black background picture quality. If some of characters are not printed, increase the transfer current.

This setting is changed in linkage with SIM 26-6 destination setting.

*1: SECL/SCA/SEF/EX inch series/EX AB series/EX inch series (FC)/ EX AB series (FC)/China/Taiwan/SEEG2

*2: SEC/SEEG/SUK

Item		Content	Setting	Def	ault
		Content	range	*1	*2
1	+V1F (600)	600dpi normal paper > B5R + V1 single surface. Duplex (Front)	5-30	5	5
2	+V1R (600)	600dpi normal paper > B5R + V1 Duplex (Back)	5-30	5	5
3	+V2F (600)	600dpi normal paper > B5R +V2 single surface. Duplex (Front)	5-30	18	20
4	+V2R (600)	600dpi normal paper > B5R +V2 Duplex (Back)	5-30	14	18
5	+V1S-F (600)	600dpi normal paper ≤ B5R +V1 single surface. Duplex (Front)	5-30	5	5
6	+V1S-R (600)	600dpi normal paper ≤ B5R +V1 Duplex (Back)	5-30	5	5
7	+V2S-F (600)	600dpi normal paper ≤ B5R +V2 single surface. Duplex (Front)	5-30	22	22
8	+V2S-R (600)	600dpi normal paper ≤ B5R +V2 Duplex (Back)	5-30	18	18
9	+V1 THICK (600)	600dpi thick paper > LTR +V1	5-30	5	5
10	+V2 THICK (600)	600dpi thick paper > LTR +V2	5-30	14	14
11	+V1 THICK S (600)	600dpi thick paper ≤ LTR +V1	5-30	5	5
12	+V2 THICK S (600)	600dpi thick paper ≤ LTR +V2	5-30	18	18
13	+V1 THIN (600)	600dpi thin paper > LTR +V1	5-30	5	5
14	+V2 THIN (600)	600dpi thin paper > LTR +V2	5-30	18	18
15	+V1 THIN S (600)	600dpi thin paper ≤ LTR +V1	5-30	5	5

Tempor Content Frange 1		la	Combont	Setting	Def	ault
+V2		Item	Content	range	*1	*2
+V1	16	+V2 THIN S (600)	· · ·	5-30	18	18
+V1 LABEL S	17	+V1 LABEL (600)		5-30	5	5
(600) +V1 (600) +V2 (18	18	+V2 LABEL (600)		5-30	18	18
(600)	19	_	1	5-30	5	5
22	20			5-30	18	18
23 +V1 OHP S (600) 600dpi OHP ≤ LTR +V1 5-30 5 5 5 24 +V2 OHP S (600) 600dpi OHP ≤ LTR +V2 5-30 18 18 25 +V1 POSTCARD 600dpi postcard/envelope (600)	21	+V1 OHP (600)	600dpi OHP > LTR +V1	5-30	5	5
24 +V2 OHP S (600) 600dpi OHP ≤ LTR +V2 5-30 18 18 25 +V1 POSTCARD (6000) 600dpi postcard/envelope 5-30 5 5 26 +V2 POSTCARD (6000) 600dpi postcard/envelope 5-30 26 26 26 +V2 POSTCARD (6000) 600dpi postcard/envelope 5-30 5 5 28 +V2 POSTCARD (6000) 600dpi postcard/envelope 5-30 26 26 28 +V2 POSTCARD (700mm +V1) 600dpi postcard/envelope 5-30 26 26 29 +V1F (1200) 1200dpi postcard/envelope 5-30 5 5 30 +V1F (1200) 1200dpi normal paper > B5R +V1 single surface. Duplex (Front) 5-30 5 5 31 +V2F (1200) 1200dpi normal paper > B5R +V1 Duplex (Back) 5-30 12 14 32 +V2R (1200) 1200dpi normal paper > B5R +V2 Duplex (Back) 5-30 5 5 33 +V1S-F (1200) 1200dpi normal paper ≤ B5R +V1 Duplex (Back) 5-30 5 5 <	22	+V2 OHP (600)	600dpi OHP > LTR +V2	5-30	14	14
25	23	+V1 OHP S (600)	600dpi OHP ≤LTR +V1	5-30	5	5
(600) > 100mm +V1	24	+V2 OHP S (600)	600dpi OHP ≤LTR +V2	5-30	18	18
(600) > 100mm +V2	25			5-30	5	5
S (600) ≤ 100mm +V1 S (600) ≤ 100mm +V2 S (600) ≤ 100mm +V3 S (26			5-30	26	26
S (600) ≤ 100mm +V2 29 +V1F (1200) 1200dpi normal paper > B5R +V1 single surface. Duplex (Front) 30 +V1R (1200) 1200dpi normal paper > B5R +V1 Duplex (Back) 31 :+V2F (1200) 1200dpi normal paper > B5R +V2 single surface. Duplex (Front) 32 +V2R (1200) 1200dpi normal paper > B5R +V2 Duplex (Back) 33 +V1S-F (1200) 1200dpi normal paper > B5R +V2 Duplex (Back) 33 +V1S-F (1200) 1200dpi normal paper ≤ B5R +V1 single surface. Duplex (Front) 34 +V1S-R (1200) 1200dpi normal paper ≤ B5R +V1 single surface. Duplex (Front) 35 +V2S-F (1200) 1200dpi normal paper ≤ B5R +V1 Duplex (Back) 36 +V2S-F (1200) 1200dpi normal paper ≤ B5R +V2 single surface. Duplex (Front) 36 +V2S-R (1200) 1200dpi normal paper ≤ B5R +V2 single surface. Duplex (Front) 37 +V1 THICK 1200dpi normal paper ≤ B5R +V2 Duplex (Back) 38 +V2 THICK 1200dpi thick paper > LTR 5-30 12 12 39 +V1 THICK 1200dpi thick paper > LTR 5-30 5 5 (1200) +V1 40 +V2 THICK 1200dpi thick paper ≤ LTR 5-30 12 12 41 +V1 THICK S 1200dpi thick paper ≤ LTR 5-30 12 12 42 +V2 THICK 1200dpi thin paper ≤ LTR 5-30 12 12 43 +V1 THIN S 1200dpi thin paper ≤ LTR 5-30 12 12 44 +V2 THIN S 1200dpi thin paper ≤ LTR 5-30 5 5 5 +V1 THICK 1200dpi thin paper ≤ LTR 5-30 5 5 5 +V1 THIN S 1200dpi thin paper ≤ LTR 5-30 5 5 5 +V1 THIN S 1200dpi thin paper ≤ LTR 5-30 5 5 5 +V1 THIN S 1200dpi thin paper ≤ LTR 5-30 5 5 5 +V1 THIN S 1200dpi thin paper ≤ LTR 5-30 5 5 5 +V1 THIN S 1200dpi thin paper ≤ LTR 5-30 5 5 5 +V1 THIN S 1200dpi thin paper ≤ LTR 5-30 5 5 5 +V1 THIN S 1200dpi thin paper ≤ LTR 5-30 5 5 5 +V1 THIN S 1200dpi thin paper ≤ LTR 5-30 5 5 5 +V1 THIN S 1200dpi label paper > LTR 5-30 5 5 5 +V1 THIN S 1200dpi label paper ≤ LTR 5-30 5 5 5 +V1 THIN S 1200dpi label paper ≤ LTR 5-30 5 5 5 +V1 THIN S 1200dpi label paper ≤ LTR 5-30 5 5 5 +V1 THIN S 1200dpi label paper ≤ LTR 5-30 5 5 5 +V1 THIN S 1200dpi label paper ≤ LTR 5-30 5 5 5 +V1 THIN S 1200dpi label paper ≤ LTR 5-30 5 5 5 +V1 THIN S 1200dpi label paper ≤ LTR 5-30 5 5 5 +V1 THIN S 1200dpi label paper ≤ LTR 5-30 5 5 5	27			5-30	5	5
B5R +V1 single surface. Duplex (Front)	28	S (600)	≤ 100mm +V2	5-30	26	26
B5R +V1 Duplex (Back) 14	29	, ,	B5R +V1 single surface. Duplex (Front)	5-30	5	5
B5R +V2 single surface. Duplex (Front) Septended	30	+V1R (1200)		5-30	5	5
B5R +V2 Duplex (Back) 1200dpi normal paper ≤ B5R +V1 single surface. Duplex (Front) 1200dpi normal paper ≤ B5R +V1 single surface. Duplex (Front) 1200dpi normal paper ≤ B5R +V1 Duplex (Back) 1200dpi normal paper ≤ B5R +V2S-F (1200) 1200dpi normal paper ≤ B5R +V2 single surface. Duplex (Front) 1200dpi normal paper ≤ B5R +V2 Duplex (Back) 1200dpi normal paper ≤ B5R +V2 Duplex (Back) 1200dpi thick paper > LTR S-30 S S S S S S S S S S S S S S S S S S S	31	:+V2F (1200)	B5R +V2 single surface.	5-30	12	14
B5R +V1 single surface. Duplex (Front) 34 +V1S-R (1200)	32	+V2R (1200)		5-30	10	10
B5R +V1 Duplex (Back) 35 +V2S-F (1200) 1200dpi normal paper ≤ B5R +V2 single surface. Duplex (Front) 5-30 14 14 36 +V2S-R (1200) 1200dpi normal paper ≤ B5R +V2 Duplex (Back) 5-30 12 12 37 +V1 THICK (1200) 1200dpi thick paper > LTR (1200) 5-30 5 5 38 +V2 THICK (1200) 1200dpi thick paper > LTR (1200) 5-30 10 10 39 +V1 THICK S (1200) 1200dpi thick paper ≤ LTR (1200) 5-30 5 5 40 +V2 THICK S (1200) 1200dpi thick paper ≤ LTR (1200) 5-30 12 12 41 +V1 THIN (1200) 1200dpi thin paper > LTR (1200) 5-30 5 5 42 +V2 THIN (1200) 1200dpi thin paper > LTR (1200) 5-30 5 5 43 +V1 THIN S (1200) 1200dpi thin paper ≤ LTR (1200) 5-30 5 5 44 +V2 THIN S (1200) 1200dpi thin paper ≤ LTR (1200) 5-30 5 5 45 +V1 LABEL (1200) 1200dpi label paper > LTR (1200) 5-30 5 5 46 +V2 LABEL (1200) 1200dpi label paper ≤ LTR (1200) 5-30 5 5 47 +V1 LABEL S (1200dpi label paper ≤ LTR (33	+V1S-F (1200)	B5R +V1 single surface.	5-30	5	5
B5R +V2 single surface. Duplex (Front) 36 +V2S-R (1200) 1200dpi normal paper ≤ B5R +V2 Duplex (Back) 37 +V1 THICK (1200dpi thick paper > LTR (1200) 12 12 12 12 12 12 12 12 12 12 12 12 12 1	34	+V1S-R (1200)		5-30	5	5
B5R +V2 Duplex (Back) 37 +V1 THICK (1200) 1200dpi thick paper > LTR (1200) 5-30 5 5 38 +V2 THICK (1200) 1200dpi thick paper > LTR (1200) 5-30 10 10 39 +V1 THICK S (1200dpi thick paper ≤ LTR (1200) 1200dpi thick paper ≤ LTR (1200) 5-30 5 5 40 +V2 THICK S (1200dpi thick paper ≤ LTR (1200) 1200dpi thin paper > LTR (1200) 5-30 5 5 41 +V1 THIN (1200) 1200dpi thin paper > LTR (1200) 5-30 5 5 42 +V2 THIN (1200) 1200dpi thin paper > LTR (1200) 5-30 12 12 43 +V1 THIN S (1200) 1200dpi thin paper ≤ LTR (1200) 5-30 5 5 44 +V2 THIN S (1200) 1200dpi thin paper ≤ LTR (1200) 5-30 5 5 45 +V1 LABEL (1200) 1200dpi label paper > LTR (1200) 5-30 5 5 46 +V2 LABEL (1200) 1200dpi label paper ≤ LTR (1200) 5-30 5 5 47 +V1 LABEL S (1200) 1200dpi label paper ≤ LTR (1200) 5-30 5 5 48 +V2 LABEL S (1200dpi label paper ≤ LTR (1200) 5-30 12 12	35	+V2S-F (1200)	B5R +V2 single surface.	5-30	14	14
(1200) +V1 38 +V2 THICK (1200) 1200dpi thick paper > LTR (1200) 5-30 10 10 39 +V1 THICK S (1200) 1200dpi thick paper ≤ LTR (1200) 5-30 5 5 40 +V2 THICK S (1200) 1200dpi thick paper ≤ LTR (1200) 5-30 12 12 41 +V1 THIN (1200) 1200dpi thin paper > LTR (1200) 5-30 5 5 42 +V2 THIN (1200) 1200dpi thin paper > LTR (1200) 5-30 12 12 43 +V1 THIN S (1200) 1200dpi thin paper ≤ LTR (1200) 5-30 5 5 44 +V2 THIN S (1200) 1200dpi thin paper ≤ LTR (1200) 5-30 5 5 45 +V1 LABEL (1200) 1200dpi label paper > LTR (1200) 5-30 5 5 46 +V2 LABEL (1200) 1200dpi label paper > LTR (1200) 5-30 5 5 47 +V1 LABEL S (1200) 1200dpi label paper ≤ LTR (1200) 5-30 5 5 48 +V2 LABEL S (1200dpi label paper ≤ LTR (1200) 5-30 12 12	36	+V2S-R (1200)	1200dpi normal paper ≤	5-30	12	12
(1200) +V2 39 +V1 THICK S (1200dpi thick paper ≤ LTR (1200) 5-30 5 5 40 +V2 THICK S (1200dpi thick paper ≤ LTR (1200) 1200dpi thick paper ≤ LTR (1200) 5-30 12 12 41 +V1 THIN (1200) 1200dpi thin paper > LTR (1200) 5-30 5 5 42 +V2 THIN (1200) 1200dpi thin paper > LTR (1200) 5-30 12 12 43 +V1 THIN S (1200dpi thin paper ≤ LTR (1200) 1200dpi thin paper ≤ LTR (1200) 5-30 5 5 44 +V2 THIN S (1200dpi thin paper ≤ LTR (1200) 12 12 12 45 +V1 LABEL (1200dpi label paper > LTR (1200) 5-30 5 5 46 +V2 LABEL (1200dpi label paper > LTR (1200) 5-30 5 5 47 +V1 LABEL S (1200dpi label paper ≤ LTR (1200) 5-30 5 5 48 +V2 LABEL S (1200dpi label paper ≤ LTR (1200) 5-30 12 12	37	_	1	5-30	5	5
(1200) +V1 40 +V2 THICK S 1200dpi thick paper ≤ LTR (1200) +V2 41 +V1 THIN (1200) 1200dpi thin paper > LTR 5-30 5 5 +V1 42 +V2 THIN (1200) 1200dpi thin paper > LTR 5-30 12 12 +V2 43 +V1 THIN S 1200dpi thin paper ≤ LTR 5-30 5 5 (1200) +V1 44 +V2 THIN S 1200dpi thin paper ≤ LTR 5-30 12 12 12 +V2 45 +V1 LABEL 1200dpi thin paper > LTR 5-30 5 5 (1200) +V1 46 +V2 LABEL 1200dpi label paper > LTR 5-30 5 5 (1200) +V1 47 +V1 LABEL S 1200dpi label paper ≤ LTR 5-30 5 5 (1200) +V2 48 +V2 LABEL S 1200dpi label paper ≤ LTR 5-30 5 5 5 (1200) +V1	38			5-30	10	10
(1200) +V2 41 +V1 THIN (1200) 1200dpi thin paper > LTR	39		1	5-30	5	5
+V1 42 +V2 THIN (1200) 1200dpi thin paper > LTR +V2 43 +V1 THIN S (1200) 44 +V2 THIN S (1200) 44 +V2 THIN S (1200) 45 +V1 LABEL (1200) 46 +V2 LABEL (1200) 47 +V1 LABELS (1200) 48 +V2 LABELS 1200dpi label paper ≤ LTR 5-30 5 5 5 6 7 7 8 8 8 9 9 12 12 12 12 12 12 13 14 15 15 15 16 17 18 18 18 18 18 18 18 18 18	40		' '	5-30	12	12
+V2 43 +V1 THIN S (1200) 44 +V2 THIN S (1200) 44 +V2 THIN S (1200) 45 +V1 46 +V1 LABEL (1200) 47 +V1 48 +V2 LABEL S 1200dpi label paper ≤ LTR (1200) 48 +V2 LABEL S 1200dpi label paper ≤ LTR (1200) 49 -V2 LABEL S 1200dpi label paper ≤ LTR (1200) 40 -V2 LABEL S 1200dpi label paper ≤ LTR (1200) 40 -V2 LABEL S 1200dpi label paper ≤ LTR (1200) 40 -V2 LABEL S 1200dpi label paper ≤ LTR (1200) 41 -V1 42 -V2 LABEL S 1200dpi label paper ≤ LTR (1200) 43 -V2 LABEL S 1200dpi label paper ≤ LTR (1200) 44 -V2 LABEL S 1200dpi label paper ≤ LTR (1200) 45 -S-30 46 -S-30 47 -S-30 48 -S-30 49 -S-30 40 -S-30 40 -S-30 40 -S-30 40 -S-30 40 -S-30 41 -S-30 42 -S-30 43 -S-30 44 -S-30 45 -S-30 46 -S-30 47 -S-30 48 -S-30 49 -S-30 40 -S-30	41	+V1 THIN (1200)	1	5-30	5	5
(1200) +V1 44 +V2 THIN S (1200) 1200dpi thin paper ≤ LTR +V2 5-30 12 12 45 +V1 LABEL (1200) 1200dpi label paper > LTR +V1 5-30 5 5 46 +V2 LABEL (1200) 1200dpi label paper > LTR (1200) 5-30 12 12 47 +V1 LABEL S (1200) 1200dpi label paper ≤ LTR (1200) 5-30 5 5 48 +V2 LABEL S 1200dpi label paper ≤ LTR 5-30 12 12	42	+V2 THIN (1200)		5-30	12	12
(1200) +V2 45 +V1 LABEL (1200dpi label paper > LTR (1200) 5-30 5 5 46 +V2 LABEL (1200dpi label paper > LTR (1200) 5-30 12 12 47 +V1 LABEL S (1200dpi label paper ≤ LTR (1200) 5-30 5 5 48 +V2 LABEL S (1200dpi label paper ≤ LTR (1200) 5-30 12 12	43		1	5-30	5	5
45 +V1 LABEL (1200) 1200dpi label paper > LTR (1200) 5-30 5 5 46 +V2 LABEL (1200) 1200dpi label paper > LTR (1200) 5-30 12 12 47 +V1 LABEL S (1200) 1200dpi label paper ≤ LTR (1200) 5-30 5 5 48 +V2 LABEL S (1200dpi label paper ≤ LTR (1200) 12 12 12	44	+V2 THIN S	' ' '	5-30	12	12
46 +V2 LABEL (1200) 1200dpi label paper > LTR (1200) 5-30 12 12 47 +V1 LABEL S (1200) 1200dpi label paper ≤ LTR (1200) 5-30 5 5 48 +V2 LABEL S 1200dpi label paper ≤ LTR (1200) 5-30 12 12	45	+V1 LABEL	1200dpi label paper > LTR	5-30	5	5
47 +V1 LABEL S (1200dpi label paper ≤ LTR (1200) 1200dpi label paper ≤ LTR (1200) 5 5 48 +V2 LABEL S (1200dpi label paper ≤ LTR (1200dpi label paper ≤	46	+V2 LABEL	1200dpi label paper > LTR	5-30	12	12
48 +V2 LABEL S 1200dpi label paper ≤ LTR 5-30 12 12	47	+V1 LABEL S	1200dpi label paper ≤ LTR	5-30	5	5
	48	+V2 LABEL S		5-30	12	12

	Item	Content	Setting	Def	ault
	пеш	Content	range	*1	*2
49	+V1 OHP (1200)	1200dpi OHP > LTR +V1	5-30	5	5
50	+V2 OHP (1200)	1200dpi OHP > LTR +V2	5-30	8	8
51	+V1 OHP S	1200dpi OHP ≤ LTR +V1	5-30	5	5
	(1200)				
52	+V2 OHP S	1200dpi OHP ≤ LTR +V2	5-30	12	12
	(1200)				
53	+V1 POSTCARD	1200dpi postcard/envelope	5-30	5	5
	(1200)	> 100mm +V1			
54	+V2 POSTCARD	1200dpi postcard/envelope	5-30	16	16
	(1200)	> 100mm +V2			
55	+V1 POSTCARD	1200dpi postcard/envelope	5-30	5	5
	S (1200)	≤ 100mm +V1			
56	+V2 POSTCARD	1200dpi postcard/envelope	5-30	16	16
	S (1200)	≤ 100mm +V2			

SIMULATION 44-34				
TC VALUE SETTING.	INPU	T VALUE 5-30, AND PRES	S STAR	T.
1: +V1 F (600)	5	2: +V1 R (600)	5	5
3: +V2 F (600)	18	4: +V2 R(600)	14	
5: +V1 S-F(600)	5	6: +V1 S-R(600)	5	1/4
7: +V2 S-F(600)	22	8: +V2 S-R(600)	18	\bigcap
9: +V1 THICK(600)	5	10: +V2 THICK(600)	14	
11: +V1 THICK S(600)	5	12: +V2 THICK S(600)	18	
13: +V1 THIN(600)	5	14: +V2 THIN(600)	18	1
				ОК

44-35		
Purpose	Setting	
Function	Used to set the DV-Bias/Grid environment (low	
(Purpose)	temperature) correction temperature.	
	_	

Enter the set value with the 10-key, and press the [START] key.

Correction is performed when the temperature sensor installed to the MCU indicates 15°C or below.

The content of correction is to raise the DVB-Bias and Grid by -50V.

The simulation allows to vary the correction threshold value in the range of 0 to 20°C .

If, however, the set temperature is increased, correction at a high voltage is performed in normal temperatures.

Setting range	0-20
Default	15°C

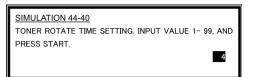


44-40	
Purpose	Setting
Function	Used to set the time from the start of the main motor
(Purpose)	rotation (Ready) to the start of toner supply in previous
	rotation after turning on the power.

Operation/procedure

Enter the set value with the 10-key, and press the [START] key. Set the toner supply previous rotation time.

Setting range	1-99 (sec)
Default	4 (sec)



46

46-2			
Purpose	Adjustment		
Function	Used to set the exposure level in each exposure mode.		
(Purpose)			
Item	Picture quality	Density	

Operation/procedure

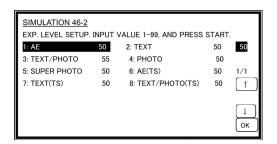
- Touch the item to be adjusted. (Automatic adjustment)
 The currently set value is highlighted beside the adjustment item.
- 2. Press the [START] key.
 The display is shifted to the copy menu.
- 3. Select the paper feed tray and the print density. Use the 10-key to set the exposure level.
- 4. Press the [START] key. Copying is started.

(Exposure mode)

Item		Content		Setting range	Default
1	AE	AE		1-99	50
2	TEXT	Character	Level 3.0		
3	TEXT/PHOTO	Character/Photo	Level 3.0		
4	PHOTO	Photo	Level 3.0		
5	SUPER PHOTO	Super photo	Level 3.0		
6	AE(TS)	AE (TS)			
7	TEXT(TS)	Character (TS)	Level 3.0		
8	TEXT/PHOTO(TS)	Character/Photo (TS)	Level 3.0		

^{*} Except for AE and AE (TS), only Level 3 can be set.

Note: When this simulation is canceled, the display returns to the initial menu but the machine is not reset.



46-7						
Purpose Adjustment						
Function	Function Used to adjust the shift amount and the inclination					
(Purpose)	value for each level (1 to 5)	of the exposure mode				
(Super Photo).						
Item Picture quality Density		Density				

Operation/procedure

- 1. Touch the item to be adjusted.
 - The adjustment item and the currently set value are highlighted.
- 2. Press the [START] key.
 - The display is shifted to the copy menu.
- 3. Select the paper feed tray and the print density. Use the 10-key to set the exposure level.
- 4. Press the [START] key. Copying is started.

(Exposure mode (Super Photo))

Item		Content	Setting range	Default
1	1.0(SHIFT)	Super photo level 1.0 (shift q'ty)	1-99	32
2	1.0(GAMMA)	Super photo level 1.0 (slant)	1-99	50
3	2.0(SHIFT)	Super photo level 2.0 (shift q'ty)	1-99	41
4	2.0(GAMMA)	Super photo level 2.0 (slant)	1-99	50
5	3.0(SHIFT)	Super photo level 3.0 (shift q'ty)	1-99	50
6	3.0(GAMMA)	Super photo level 3.0 (slant)	1-99	50
7	4.0(SHIFT)	Super photo level 4.0 (shift q'ty)	1-99	56
8	4.0(GAMMA)	Super photo level 4.0 (slant)	1-99	61
9	5.0(SHIFT)	Super photo level 5.0 (shift q'ty)	1-99	62
10	5.0(GAMMA)	Super photo level 5.0 (slant)	1-99	66

Note: When this simulation is canceled, the display returns to the initial menu but the machine is not reset.

SIMULATION	46.7				
		PHOTO). INPUT	\/^!!!	1 00	AND
		PHOTO). INPUT	VALUE	1-99,	AND
PRESS STAR		0.40(0.4444)			00
1: 1.0(SHIFT)	32	2: 1.0(GAMMA)		50	32
3: 2.0(SHIFT)	41	4: 2.0(GAMMA)		50	1/1
5: 3.0(SHIFT)	50	6: 3.0(GAMMA)		50	\Box
7: 4.0(SHIFT)	56	8: 4.0(GAMMA)		61	
9: 5.0(SHIFT)	62	10: 5.0(GAMMA)		66	\Box
					ОК

Purpose	Adjustment				
Function	Used to adjust the shift amount and the inclination				
(Purpose)	value for each level (1 to 5) of the exposure mode				
	(Text).				
Item	Picture quality Density				

Operation/procedure

- Touch the item to be adjusted.
 The adjustment item and the currently set value are highlighted.
- 2. Press the [START] key.
 The display is shifted to the copy menu.
- 3. Select the paper feed tray and the print density. Use the 10-key to set the exposure level.
- 4. Press the [START] key. Copying is started.

(Exposure mode (Text))

	Item	Content	Setting range	Default
1	1.0 (SHIFT)	Character level 1.0 (shift q'ty)	1-99	22
2	1.0 (GAMMA)	Character level 1.0 (slant)	1-99	44
3	2.0 (SHIFT)	Character level 2.0 (shift q'ty)	1-99	36
4	2.0 (GAMMA)	Character level 2.0 (slant)	1-99	47
5	3.0 (SHIFT)	Character level 3.0 (shift q'ty)	1-99	50
6	3.0 (GAMMA)	Character level 3.0 (slant)	1-99	50
7	4.0 (SHIFT)	Character level 4.0 (shift q'ty)	1-99	61
8	4.0 (GAMMA)	Character level 4.0 (slant)	1-99	55
9	5.0 (SHIFT)	Character level 5.0 (shift q'ty)	1-99	72
10	5.0 (GAMMA)	Character level 5.0 (slant)	1-99	60
11	TS 1.0 (SHIFT)	Character (TS) level 1.0 (shift q'ty)	1-99	22
12	1TS 1.0 (GAMMA)	Character (TS) level 1.0 (slant)	1-99	44
13	TS 2.0 (SHIFT)	Character (TS) level 2.0 (shift q'ty)	1-99	36

Item		Content	Setting range	Default
.	TO 0 0	01 (T0) 1 100		4-
14	TS 2.0	Character (TS) level 2.0	1-99	47
	(GAMMA)	(slant)		
15	TS 3.0 (SHIFT)	Character (TS) level 3.0	1-99	50
	,	(shift q'ty)		
16	TS 3.0	Character (TS) level 3.0	1-99	50
	(GAMMA)	(slant)		
17	TS 4.0(SHIFT)	Character (TS) level 4.0	1-99	61
		(shift q'ty)		
18	TS 4.0	Character (TS) level 4.0	1-99	55
	(GAMMA)	(slant)		
19	TS 5.0 (SHIFT)	` '	1.00	72
19	15 5.0 (501171)	Character (TS) level 5.0	1-99	12
		(shift q'ty)		
20	TS 5.0	Character (TS) level 5.0	1-99	60
	(GAMMA)	(slant)		

Note: When this simulation is canceled, the display returns to the initial menu but the machine is not reset.

SIMULATION 46-9							
EXP. LEVEL SETUP	EXP. LEVEL SETUP(TEXT). INPUT VALUE 1-99, AND PRESS START.						
1: 1.0(SHIFT)	22	2: 1.0(GAMMA)	44	22			
3: 2.0(SHIFT)	36	4: 2.0(GAMMA)	47				
5: 3.0(SHIFT)	50	6: 3.0(GAMMA)	50	1/2			
7: 4.0(SHIFT)	61	8: 4.0(GAMMA)	55	\uparrow			
9: 5.0(SHIFT)	72	10: 5.0(GAMMA)	60				
11: TS 1.0(SHIFT)	22	12: TS 1.0(GAMMA)	44				
13: TS 2.0(SHIFT)	36	14: TS 2.0(GAMMA)	47	OK			

46-10						
Purpose	Adjustment					
Function	Used to adjust the shift amount and the inclination					
(Purpose)	value for each level (1 to 5) of the exposure mode					
	(Text/Photo).					
Item	Picture quality					

Operation/procedure

- Touch the item to be adjusted.
 The adjustment item and the currently set value are highlighted.
- Press the [START] key.
 The display is shifted to the copy menu.
- 3. Select the paper feed tray and the print density. Use the 10-key to set the exposure level.
- 4. Press the [START] key. Copying is started.

(Exposure mode (Text/Photo))

	Item	Content	Setting range	Default
1	1.0 (SHIFT)	Character/Photo level 1.0 (shift q'ty)	1-99	30
2	1.0 (GAMMA)	Character/Photo level 1.0 (slant)	1-99	37
3	2.0 (SHIFT)	Character/Photo level 2.0 (shift q'ty)	1-99	40
4	2.0 (GAMMA)	Character/Photo level 2.0 (slant)	1-99	43
5	3.0 (SHIFT)	Character/Photo level 3.0 (shift q'ty)	1-99	50
6	3.0 (GAMMA)	Character/Photo level 3.0 (slant)	1-99	50
7	4.0 (SHIFT)	Character/Photo level 4.0 (shift q'ty)	1-99	57
8	4.0 (GAMMA)	Character/Photo level 4.0 (slant)	1-99	61
9	5.0 (SHIFT)	Character/Photo level 5.0 (shift q'ty)	1-99	64

	Item	Content	Setting range	Default
10	5.0 (GAMMA)	Character/Photo level 5.0	1-99	66
		(slant)		
11	TS 1.0	Character/Photo (TS) level 1.0	1-99	30
	(SHIFT)	(shift q'ty)		
12	TS 1.0	Character/Photo (TS) level 1.0	1-99	37
	(GAMMA)	(slant)		
13	TS 2.0	Character/Photo (TS) level 2.0	1-99	40
	(SHIFT)	(shift q'ty)		
14	TS 2.0	Character/Photo (TS) level 2.0	1-99	43
	(GAMMA)	(slant)		
15	TS 3.0	Character/Photo (TS) level 3.0	1-99	50
	(SHIFT)	(shift q'ty)		
16	TS 3.0	Character/Photo (TS) level 3.0	1-99	50
	(GAMMA)	(slant)		
17	TS 4.0	Character/Photo (TS) level 4.0	1-99	57
	(SHIFT)	(shift q'ty)		
18	TS 4.0	Character/Photo (TS) level 4.0	1-99	61
	(GAMMA)	(slant)		
19	TS 5.0	Character/Photo (TS) level 5.0	1-99	64
	(SHIFT)	(shift q'ty)		
20	TS 5.0	Character/Photo (TS) level 5.0	1-99	66
	(GAMMA)	(slant)		

Note: When this simulation is canceled, the display returns to the initial menu but the machine is not reset.

SIMULATION 46-10 EXP. LEVEL SETUPO START.	_	HOTO). INPUT VALUE 1-	99, AND	PRESS
1: 1.0(SHIFT)	30	2: 1.0(GAMMA)	37	30
3: 2.0(SHIFT)	40	4: 2.0(GAMMA)	43	1/2
5: 3.0(SHIFT)	50	6: 3.0(GAMMA)	50	\bigcap
7: 4.0(SHIFT)	57	8: 4.0(GAMMA)	61	
9: 5.0(SHIFT)	64	10: 5.0(GAMMA)	66	
11: TS 1.0(SHIFT)	30	12: TS 1.0(GAMMA)	37	ΟK
13: TS 2.0(SHIFT)	40	14: TS 2.0(GAMMA)	43	

46-11				
Purpose	Adjustment			
Function (Purpose)	Used to adjust the shift amount and the inclination value for each level (1 to 5) of the exposure mode (Photo).			
Item	Picture quality	Density		

Operation/procedure

- Touch the item to be adjusted.
 The adjustment item and the currently set value are highlighted.
- 2. Press the [START] key.
 The display is shifted to the copy menu.
- 3. Select the paper feed tray and the print density. Use the 10-key to set the exposure level.
- 4. Press the [START] key. Copying is started.

(Exposure mode (Photo))

<u> </u>				
Item		Content	Setting range	Default
1	1.0(SHIFT)	Photo level 1.0 (shift q'ty)	1-99	32
2	1.0(GAMMA)	Photo level 1.0 (slant)		50
3	2.0(SHIFT)	Photo level 2.0 (shift q'ty)		41
4	2.0(GAMMA)	Photo level 2.0 (slant)		50
5	3.0(SHIFT)	Photo level 3.0 (shift q'ty)		50
6	3.0(GAMMA)	Photo level 3.0 (slant)		50
7	4.0(SHIFT)	Photo level 4.0 (shift q'ty)		56
8	4.0(GAMMA)	Photo level 4.0 (slant)		61
9	5.0(SHIFT)	Photo level 5.0 (shift q'ty)		62
10	5.0(GAMMA)	Photo level 5.0 (slant)		66

Note: When this simulation is canceled, the display returns to the initial menu but the machine is not reset.

SIMULATION EXP. LEVEL START.		TO). INPUT VALUE	1-99, AND	PRESS
1: 1.0(SHIFT)	32	2: 1.0(GAMMA)	50	32
3: 2.0(SHIFT)	41	4: 2.0(GAMMA)	50	1/1
5: 3.0(SHIFT)	50	6: 3.0(GAMMA)	50	
7: 4.0(SHIFT)	56	8: 4.0(GAMMA)	61	
9: 5.0(SHIFT)	62	10: 5.0(GAMMA)	66	
				ОК

46-12	
Purpose	Adjustment
Function FAX exposure level adjustment (1 mode automatic	
(Purpose)	adjustment)
Section	FAX
Item	Image quality

Operation/procedure

- Select "1: COPY START."

 The currently set value is displayed beside the item.
- 2. Enter the set value of the exposure level with the 10-key, and press the [#/P] key.
- Press the [START] key.
 Copying is started and the set value is stored.

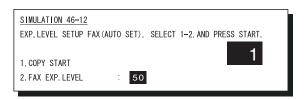
Normal display	NOW PRINTING
Error display	DOOR OPEN
	JAM
	PAPER EMPTY

There is no tray selection operation.

The optimum paper tray for the scanned size is selected.

Item		Setting range	Default
1	COPY START	_	ı
2	FAX EXP.LEVEL	0-99	50

Note: Executable only when the FAX is installed.



46-13				
Purpose	Adjustment			
Function FAX exposure level adjustment (Normal mode				
(Purpose) individual adjustment)				
Section	FAX			
Item	Image quality			

Operation/procedure

- 1. Select "1: COPY START."
 - The currently set value is displayed beside the item.
- Enter the set value of the exposure level with the 10-key, and press the [#/P] key.
- Press the [START] key. Copying is started and the set value is stored.

Normal display	NOW PRINTING
Error display	DOOR OPEN
	JAM
	PAPER EMPTY

There is no tray selection operation.

The optimum paper tray for the scanned size is selected.

	Item	Content	Setting range	Default
1	COPY START	Copy start	_	_
2	EXP.LEVEL	Exposure level		
		selection	0-99	F0
3	AE	Normal text AE	0-99	50
4	MANUAL	Normal text MANUAL		

SIMULATION 46-13						
	FAX (NORMAL).	SELECT 1-4,	AND PRESS START.			
1. COPY START			1			
2. EXP. LEVEL	: 3					
3. AE	: 50					
4. MANUAL	5 0					

46-14					
Purpose	Adjustment				
Function FAX exposure level adjustment (Fine text mode					
(Purpose) individual adjustment)					
Section FAX					
Item	Image quality				

Operation/procedure

- Select "1: COPY START."
 The currently set value is displayed beside the item.
- 2. Enter the set value of the exposure level with the 10-key, and press the [#/P] key.
- 3. Press the [START] key.

Copying is started and the set value is stored.

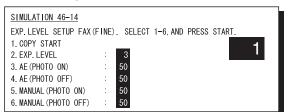
Normal display	NOW PRINTING
Error display	DOOR OPEN
	JAM
	PAPER EMPTY

There is no tray selection operation.

The optimum paper tray for the scanned size is selected.

	Item	Content	Setting range	Default
1	COPY START	Copy start	_	_
2	EXP.LEVEL	Exposure level selection		
3	AE (PHOTO ON)	Fine text AE (Half tone)		
4	AE (PHOTO OFF)	Fine text AE 0-99		50
5	5 MANUAL (PHOTO Fine text MANUAL (Half ON)		0-99	30
6	MANUAL (PHOTO OFF)	Fine text MANUAL		

Note: Executable only when the FAX is installed.



46-15				
Purpose	Adjustment			
Function	Function FAX exposure level adjustment (Super Fine mode			
(Purpose)	individual adjustment)			
Section	FAX			
Item Image quality				
O	and a discon			

Operation/procedure

Select "1: COPY START."
 The currently set value is displayed beside the item.

- Enter the set value of the exposure level with the 10-key, and press the [#/P] key.
- 3. Press the [START] key.

Copying is started and the set value is stored.

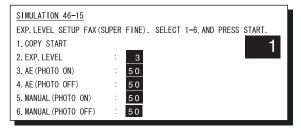
Normal display	NOW PRINTING		
Error display	DOOR OPEN		
	JAM		
	PAPER EMPTY		

There is no tray selection operation.

The optimum paper tray for the scanned size is selected.

	Item	Content	Setting range	Default
1	COPY START	Copy start	-	-
2	EXP.LEVEL	Exposure level selection		
3	AE (PHOTO ON)	Super Fine AE (Half		
		tone)		
4	AE (PHOTO OFF)	Super Fine AE	0 - 99	50
5	MANUAL	Super Fine MANUAL	0 - 33	30
	(PHOTO ON)	(Half tone)		
6	MANUAL	Super Fine MANUAL		
	(PHOTO OFF)			

Note: Executable only when the FAX is installed.



46-16				
Purpose	Adjustment			
Function FAX exposure level adjustment (Ultra Fine mode				
(Purpose) individual adjustment)				
Section FAX				
Item	Image quality			

Operation/procedure

- 1. Select "1: COPY START."
 - The currently set value is displayed beside the item.
- 2. Enter the set value of the exposure level with the 10-key, and press the [#/P] key.
- 3. Press the [START] key.

Copying is started and the set value is stored.

Normal display	NOW PRINTING
Error display	DOOR OPEN
	JAM
	PAPER EMPTY

There is no tray selection operation.

The optimum paper tray for the scanned size is selected.

Item		Content	Setting range	Default
1	COPY START	Copy start	-	_
2	EXP.LEVEL	Exposure level selection		
3	AE (PHOTO ON)	Ultra Fine AE (Half		
		tone)		
4	AE (PHOTO OFF)	Ultra Fine AE	0 - 99	50
5	MANUAL	Ultra Fine MANUAL	0 - 33	30
	(PHOTO ON)	(Half tone)		
6	MANUAL	Ultra Fine MANUAL		
	(PHOTO OFF)			

Note: Executable only when the FAX is installed.

SIMULATION 46-16						
EXP. LEVEL SETUP I	FAX (ULTRA	FINE).	SELECT	1-6, AND	PRESS	START.
1. COPY START						- 1
2. EXP. LEVEL	:	3				
3. AE (PH0T0 ON)	:	50				
4. AE (PH0T0 OFF)	:	50				
5. MANUAL (PHOTO OI	N) :	50				
6. MANUAL (PHOTO O	FF) :	50				

46-18	
Purpose	Adjustment
Function	Used to adjust inclination for each exposure mode.
(Purpose)	
Item	Picture quality

- Touch the item to be adjusted.

 The adjusted and the adjusted.

 The adjusted and the a
 - The adjustment item and the current set value are highlighted.
- 2. Press the [START] key.
 - The display is shifted to the copy menu.
- Select the paper feed tray and the print density. Set the exposure level with the 10-key.
- 4. Press the [START] key. Copying is started.

(Auto adjustment)

	Item	Content		Setting range	Default
1	AE	AE		1-99	50
2	TEXT	Character	Level 3.0		
3	TEXT/PHOTO	Character/Photo	Level 3.0		
4	PHOTO	Photo	Level 3.0		
5	SUPER PHOTO	Super photo	Level 3.0		
6	AE(TS)	AE(TS)			
7	TEXT(TS)	Character (TS)	Level 3.0		
8	TEXT/PHOTO(TS)	Character/Photo (TS)	Level 3.0		

Note: When this simulation is canceled, the display returns to the initial menu but the machine is not reset.

SIMULATION 46-18 GAMMA SETUP. INP		JE 1-99, AND PRESS STA	RT.	
1: AE	50	2: TEXT	50	50
3: TEXT/PHOTO	50	4: PHOTO	50	1/1
5: SUPER PHOTO	50	6: AE(TS)	50	
7: TEXT(TS)	50	8: TEXT/PHOTO(TS)	50	\uparrow
				↓ Ок

46-19	
Purpose	Adjustment
Function	Used to set the control method of the exposure mode.
(Purpose)	
Item	Picture quality

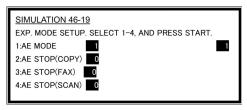
Operation/procedure

- 1. Touch the item to be adjusted.
 - The currently set value is highlighted beside the adjustment item.
- 2. Press the [START] key.
 - The display is shifted to the adjustment value entry menu.
- 3. Enter the adjustment value with the 10-key, and press the [START] key.

When the [CUSTOM SETTINGS] key is pressed, the display returns to the original state (adjustment item selection menu).

_			1
	Item	Content	Default
1	AE MODE	Auto exposure mode*	2
	(1:EXPOSURE	(1: Priority on Image quality,	
	2:TONER)	2: Priority on toner consumption)	
2	AE STOP(COPY)	Auto exposure STOP mode	0
	(0:FIXED	(COPY)	
	1:REAL TIME)	(0: Fixed, 1: Real-time)	
3	AE STOP(FAX)	Auto exposure STOP mode (FAX)	0
	(0:FIXED	(0: Fixed, 1: Real-time)	
	1:REAL TIME)		
4	AE STOP(SCAN)	Auto exposure STOP mode	0
	(0:FIXED	(SCANNER)	
	1:REAL TIME)	(0: Fixed, 1: Real-time)	

- * Auto exposure mode
- When SIM 26-6 (Destination setup) is changed from EX Japan to Japan, the setup value becomes 1 (Default: Japan). If, on the contrary, it is changed from Japan to EX Japan, the set value becomes 2 (Default: EX Japan)
- If the auto exposure mode setup value is changed, the setup value of SIM 46-30 (AE limit setup) is reset to the default value.

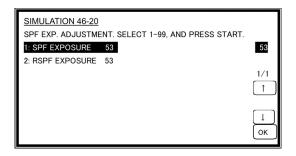


46-20	
Purpose	Adjustment
Function	Used to set the exposure correction value of SPF/
(Purpose)	RSPF for OC exposure.
Item	Picture quality

Operation/procedure

- Touch the item to be adjusted.
 The adjustment item and the currently set value are highlighted.
- 2. Enter the set value with the 10-key.

			-	
Item		Content	Setting range	Default
1	SPF EXPOSURE	SPF	1-99	53
2	RSPF EXPOSURE	RSPF		



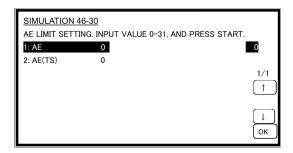
46-30	
Purpose	Setting
Function	Used to set the AE and the limit value in AE (Toner
(Purpose)	save).

Operation/procedure

- Touch the item to be adjusted.
 The adjustment item and the currently set value are highlighted.
- 2. Enter the set value with the 10-key.

If SIM 26-6 (Destination setup) and SIM46-19 (Auto exposure mode) are changed, this setup is also changed to the default value accordingly.

	Item	Setting range	Default
1	AE	0-31	0
2	AE(TS)		



46-31

Purpose	Setting
Function	Used to set the AE and the limit value in AE (Toner
(Purpose)	save).

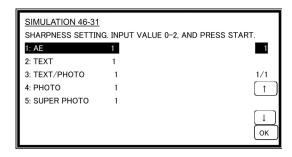
Operation/procedure

1. Touch the item to be adjusted.

The adjustment item and the currently set value are highlighted.

2. Enter the set value with the 10-key.

Item		Setting range	Default
1	AE		
2	TEXT		
3	TEXT/PHOTO	0 - 2	1
4	PHOTO		
5	SUPER PHOTO		



46-39

Purpose	Setting
Function	Used to switch the FAX send image quality.
(Purpose)	

Enter the set value with the 10-key.

Item		Content	Setting range	Default
0	HAIRLINE	Original with pencil lines		
		and thin lines	0 - 1	0
1	PRINTER	Printed original		

SIMULATION 46-39
FAX DOCUMENT TYPE SETTING. SELECT 0-1, AND PRESS
START.
0:HAIRLINE
1:PRINTED

48

48-1

Purpose	Adjustment
Function (Purpose)	Used to adjust the copy mode magnification ratio (main scanning direction, sub scanning direction).
Section	Image processing
Item	Picture quality

Operation/procedure

1. Touch the item to be set.

The item and the currently set value are highlighted.

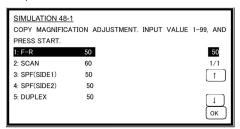
2. Press the [START] key.

The display is shifted to the copy menu.

- Select the paper feed tray and the print density, and enter the adjustment value with the 10-key.
- 4. Press the [START] key. Copying is started.

	Item	Content	Setting range	Default
1	F-R	Main scanning magnification	1-99	50
		ratio adjustment		
2	SCAN	Sub scanning magnification		60
		ratio adjustment		
3	SPF/RSPF	SPF/RSPF surface sub scan		50
	(SIDE1)	magnification ratio		
4	SPF/RSPF	SPF/RSPF back surface sub		
	(SIDE2)	scan magnification ratio		
5	DUPLEX	DUPLEX sub scanning		
		magnification ratio adjustment		

Note: When this simulation is canceled, the display is shifted to the initial menu, but the machine is not reset.



48-2

Purpose	Adjustment
Function Used to adjust the scanner mode magnification ratio	
(Purpose) (main/sub scanning direction).	
Section	Image processing
Item	Picture quality

Operation/procedure

Touch the item to be set.

The item and the currently significant.

The item and the currently set value are highlighted.

Press the [START] key. The display is shifted to the copy menu.

- 3. Select the paper feed tray and the print density, and enter the adjustment value with the 10-key.
- 4. Press the [START] key. Copying is started.

			O - 11:	
Item		Content	Setting	Default
	nom	Content	range	Delault
1	F-R	Main scanning magnification	1-99	50
		ratio adjustment		
2	SCAN	Sub scanning magnification		
		ratio adjustment		
3	SPF (SIDE1)	RSPF surface sub scan		
		magnification ratio		
4	SPF (SIDE2)	RSPF back surface sub scan		
		magnification ratio		

48-8	
Purpose	Adjustment
Function	FAX magnification adjustment (read)
(Purpose)	
Section	FAX
Related soft SW	SW112-1 to 8, SW113-1 to 8

Operation/procedure

- Select "1: COPY START."
 The currently set value is highlighted beside the item.
- 2. Enter the set value of magnification with the 10-key, and press the [#/P] key.
- 3. Press the [START] key.
 Copying is started and the set value is stored.

Normal display	NOW PRINTING
Error display	DOOR OPEN
	JAM
	PAPER EMPTY

There is no operation of tray selection.

The optimum paper tray for the scanned size is selected.

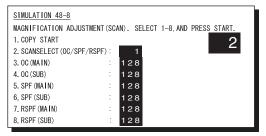
Even when the SPF/RSPF is selected, if there is no original on the SPF/RSPF, the OC is scanned.

Even when the OC is selected, if there is any original on the SPF/RSPF, the SPF/RSPF is scanned. (Setting 2)

	Item	Content	Setting range	Default
1	COPY START	Copy start	_	-
2	SCAN SELECT (OC/SPF/RSPF)	Scan selection (OC/ SPF/ RSPF)	1-255*	128
3	OC(MAIN)	SCAN Main scanning magnification ratio adjustment (OC)	1-255*	128
4	OC(SUB)	SCAN Sub scanning magnification ratio adjustment (OC)	1-255*	128
5	SPF(MAIN)	SCAN Main scanning magnification ratio adjustment (SPF)	1-255*	128
6	SPF(SUB)	SCAN Sub scanning magnification ratio adjustment (SPF)	1-255*	128
7	RSPF(MAIN)	SCAN Main scanning magnification ratio adjustment (RSPF)	1-255*	128
8	RSPF(SUB)	SCAN Sub scanning magnification ratio adjustment (RSPF)	1-255*	128

^{*} The adjustment can be made in the range of -12.7% - +12.7% by the increment of 0.1%.

Note: Executable only when the FAX is installed.



48-9	
Purpose	Adjustment
Function (Purpose)	FAX magnification adjustment (print)
Section	FAX

Operation/procedure

- Select "1: COPY START."
 The currently set value is displayed beside the item.
- Press the [START] key. Copying is started and the set value is stored.

Normal display	NOW PRINTING
Error display	DOOR OPEN
	JAM
	PAPER EMPTY

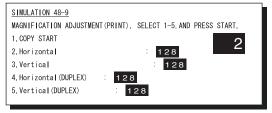
There is no operation of tray selection.

The optimum paper tray for the scanned size is selected.

When two pages are scanned, duplex printing is made.

	Item	Content	Setting range	Default
1	COPY START	Copy start	1-255	128
2	Horizontal	Print magnification ratio adjustment (Horizontal, vertical to paper passing)	1-255	128
3	Vertical	Print magnification ratio adjustment (Vertical, parallel to paper passing)	1-255	128
4	Horizontal (DUPLEX)	Print magnification ratio adjustment on the back surface (Horizontal, vertical to paper passing)	1-255	128
5	Vertical (DUPLEX)	Print magnification ratio adjustment on the back surface (Vertical, parallel to paper passing)	1-255	128

Note: Executable only when the FAX is installed.





50-1				
Purpose Adjustment				
Function Used to adjust the copy lead edge position.		d edge position.		
(Purpose)				
Item	Picture quality	Image position		

- Touch the item to be adjusted.
 The item and the currently set value are highlighted.
- 2. Enter the adjustment value with the 10-key and press the [P] key., The display goes to the copy menu.

When the [START] key is pressed, the display goes to the copying state and print is started.

(When the [P] key is pressed: Copy menu)

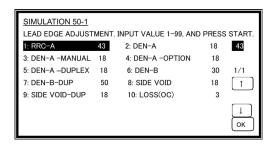
- Select the paper feed tray and the print density. Enter the exposure level with the 10-key.
- 4. Press the [START] key. Copying is started.

Note: When this simulation is canceled, the display is shifted to the initial menu, but the machine is not reset.

(Adjustment procedure)

- 1. Note down the adjustment value of SIM 50-5 (Items 1, 2, 3, 4), and change the value to 99.
- Set SIM 50-1 (Items 2, 3, 4, 5) to 1. (By setting to 1, there is no void.)
- Place a chart with a clear lead edge (or a ruler) on the OC document table.
- Use SIM 50-1 (Item 1) to execute test print. Check the print out and adjust so that the lead edge image is printed. (1 - 99: About 0.127mm/Step)
- Reset the adjustment values of SIM 50-5 (Items 1, 2, 3, 4) to the original values, and execute test print. Check the print out and adjust so that the lead edge image is printed on the lead edge of paper. (1 - 99: About 0.127mm/Step).
- 6. Adjust SIM 50-1 (Items 2, 3, 4, 5) so that the lead edge void on the print out is the specified value. (1 99: About 0.127mm/Step)
- 7. Similar to procedure 6, adjust SIM 50-1 (Item 6, 7) so that the rear edge void is the specified value. (1 99: About 0.127mm/Step)
- 8. Similar to procedure 6, adjust SIM 50-1 (Item 8, 9) so that the left edge void is the specified value. (1 99: About 0.127mm/Step)
- 9. Make an enlargement copy (400%), and check that there is no shade of the cabinet printed at the lead edge.
- 10. If there is a shade printed at the lead edge in procedure 9, adjust SIM 50-1 (Item 10). (1 5: About 0.677mm)
 - * If there is no problem, set to 2.

	Item	Content	Setting range	Default	
1	RRC-A	Original scan start position adjustment Lead edge position adjustment value (OC)	1-99	43	
2	DEN-A	Lead edge cancel adjustment (Main cassette)	1-99	18	
3	DEN-A-MANUAL	Lead edge cancel adjustment (Manual feed cassette)	1-99	18	
4	DEN-A -OPTION	Lead edge cancel adjustment (Option cassette)	1-99	18	
5	DEN-A -DUPLEX	Lead edge cancel adjustment (back of the machine)	1-99	18	
6	DEN-B	Rear edge void adjustment	1-99	30	
7	DEN-B-DUP	Rear edge void adjustment (Duplex)	1-99	50	
8	SIDE VOID	Left edge void adjustment (First print surface)	1-99	18	
9	SIDE VOID-DUP	Left edge void adjustment (Duplex)	1-99	18	
10	LOSS(OC)	Image loss amount adjustment (Lead edge image loss set value) (OC)	1-5	3	



50-5		
Purpose	Adjustment	
Function	Function Used to adjust the print image position (top margin) or	
(Purpose)		
Item	Picture quality	Print area

Operation/procedure

- Touch the item to be adjusted.
 The item and the currently set value are highlighted.
- Enter the adjustment value with the 10-key and press the [P] key., The display goes to the copy menu.
 When the [START] key is pressed, the display goes to the copying

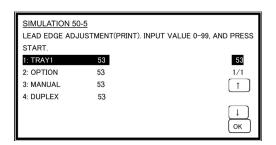
(When the [P] key is pressed: Copy menu)

state and print is started.

- Select the paper feed tray and the print density. Enter the exposure level with the 10-key.
- 4. Press the [START] key. Copying is started.

Note: When this simulation is canceled, the display is shifted to the initial menu, but the machine is not reset.

	Item	Content	Setting range	Default
1	TRAY1	1st cassette	0-99	53
2	OPTION	Option cassette	1-99	
3	MANUAL	Manual feed		
4	DUPLEX	Back print		



50-6			
Purpose	Purpose Adjustment		
Function	Function Used to adjust the print image position (top margin) or		
(Purpose)	print paper in the copy mode. (SPF/RSPF)		
Item	Picture quality Image position		

Operation/procedure

- Touch the item to be adjusted.
 The item and the currently set value are highlighted.
- Enter the adjustment value with the 10-key and press the [P] key., The display goes to the copy menu.
 - When the [START] key is pressed, the display goes to the copying state and print is started.

(When the [P] key is pressed: Copy menu)

- Select the paper feed tray and the print density. Enter the exposure level with the 10-key.
- 4. Press the [START] key. Copying is started.

Note: When this simulation is canceled, the display is shifted to the initial menu, but the machine is not reset.

Item		Content	Setting range	Default
1	SIDE1	Surface original scan start position adjustment value	1-99	50
2	SIDE2	Back original scan start position set value	1-99	50
3	END EDGE	Rear edge void adjustment value (SPF/ RSPF)	1-99	50
4	LOSS(SIDE1)	Surface image loss quantity set value	1-5	3
5	LOSS(SIDE2)	Back image loss quantity set value	1-5	3
6	REARLOS(SIDE1)	Surface rear edge image loss quantity set value	1-5	3
7	REARLOS(SIDE2)	Back rear edge image loss quantity set value	1-5	3

SIMULATION 50-6			
	TMEN	IT(SPF/RSPF). INPUT VALUE	1-99. AND
PRESS START.			
1: SIDE1	50		50
2: SIDE2	50		1/1
3: END EDGE	50		\uparrow
4: LOSS(SIDE1)	3		
5: LOSS(SIDE2)	3		
6: REARLOS(SIDE1)	3		ОК
7: REARLOS(SIDE2)	3		(OK)

50-8

The adjustments on the machine side must have been normally
completed.

Purpose	Adjustment
Function (Purpose)	FAX lead edge adjustment (read)
Section	FAX

Operation/procedure

- 1. Select "1: COPY START."
 - The currently set value is highlighted beside the item.
- 2. Enter the correction value with the 10-key, and press the [#/P] key.
- 3. Press the [START] key.

Copying is started.

Normal display	NOW PRINTING	
Error display	DOOR OPEN	
	JAM	
	PAPER EMPTY	

There is no tray selection operation.

The optimum paper tray for the scanned size is selected.

4. Select the scanning method.

Even when the SPF/RSPF is selected, if there is no original on the SPF/RSPF, the OC is scanned.

Even when the OC is selected, if there is any original on the SPF/RSPF, the SPF/RSPF is scanned. (Setting 2)

	Item	Content	Setting range	Default
1	COPY START	Copy start	1	-
2	SCAN SELECT (OC/ SPF/RSPF)	Scan selection (1: OC, 2: SPF, 3: RSPF back)	1-3	1
3	LEAD	Scan lead edge position adjustment value of the selected method in 2.	43-57	50
4	LEFT	Scan left edge position adjustment value of the selected method in 2.	43-57	50

	Item	Content	Setting range	Default
5	REAR	Scan rear edge position adjustment value of the selected method in 2.	43-57	50
6	RIGHT	Scan right edge position adjustment value of the selected method in 2.	43-57	50

Note: Executable only when the FAX is installed.

SIMULATION 50-8	
FAX SCAN IMAGELOSS ADJUSTMENT. SELECT 1-6, AND	PRESS START.
1. COPY START	2
2. SCAN SELECT (OC/SPF/RSPF) : 1	
3. LEAD	50
4. LEFT	50
5. REAR	: 50

50-9	

Purpose	Adjustment
Function (Purpose)	FAX lead edge adjustment (print)
Section	FAX

Operation/procedure

- 1. Select "1: COPY START."
 - The currently set value is highlighted beside the item.
- 2. Press the [START] key. Copying is started.

Normal display	NOW PRINTING
Error display	DOOR OPEN
	JAM
	PAPER EMPTY

There is no tray selection operation.

The optimum paper tray for the scanned size is selected.

When two pages are scanned, duplex print is made,

	Item	Content	Setting range	Default
1	COPY START	Copy start	_	-
2	LEAD	Print lead edge void adjustment value (Front surface)	43-57	50
3	LEFT	Print left edge void adjustment value (Front surface)	43-57	50
4	REAR	Print rear edge void adjustment value (Front surface)	43-57	50
5	(DUPLEX)	Print lead edge void adjustment value (Back surface)	43-57	50
6	LEFT (DUPLEX)	Print left edge void adjustment value (Back surface)	43-57	50
7	REAR (DUPLEX)	Print rear edge void adjustment value (Back surface)	43-57	50

Note: Executable only when the FAX is installed.

SIMULATION 50-9	9		
FAX PRINT VOID	ADJUSTMENT.	SELECT 1-7, AND	PRESS START.
1. COPY START			1
2. LEAD	: 5 0		I
3. LEFT	: 50		
4. REAR	: 50		
5. LEAD (DUPLEX)	: 50		
6. LEFT (DUPLEX)	: 50		
7. REAR (DUPLEX)	: 50		

50-10			
Purpose	Purpose Adjustment		
Function (Purpose)	Used to adjust the print image center position. (Adjustment can be made for each paper feed section.)		
Section	Image processing (ICU)		
Item	Picture quality Image position		

1. Touch the item to be adjusted.

The item and the currently set value are highlighted.

2. Enter the adjustment value with the 10-key and press the [P] key., The display goes to the copy menu.

When the [START] key is pressed, the display goes to the copying state and print is started.

(When the [P] key is pressed: Copy menu)

Select the paper feed tray and the print density. Enter the exposure level with the 10-key.

4. Press the [START] key. Copying is started.

Note: When this simulation is canceled, the display is shifted to the initial menu, but the machine is not reset.

	Item	Content	Setting range	Default
1	BYPASS	Manual feed	1-99	50
2	TRAY1	1st cassette		
3	TRAY2	2nd cassette		
4	TRAY3	3rd cassette		
5	TRAY4	4th cassette		
6	DUPLEX	Back print		

CIMUL ATION 50 4	0	
SIMULATION 50-1		
PRINT OFF-CENT	ER ADJUSTMENT. INPUT VALUE	1-99, AND
PRESS START.		
1: BYPASS	50	50
2: TRAY1	50	1/1
3: TRAY2	50	\uparrow
4: TRAY3	50	
5: TRAY4	50	
6: DUPLEX	50	ОК

50-12

Purpose	Adjustment	
Function	Used to adjust the print image center position.	
(Purpose)	(Adjustment can be made for each document mode.)	
Section	Image processing	
Item	Picture quality	Image position

Operation/procedure

1. Touch the item to be adjusted.

The item and the currently set value are highlighted.

2. Enter the adjustment value with the 10-key and press the [P] key., The display goes to the copy menu.

When the [START] key is pressed, the display goes to the copying state and print is started.

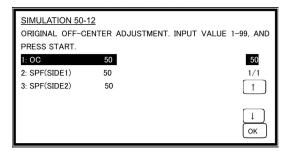
(When the [P] key is pressed: Copy menu)

Select the paper feed tray and the print density. Enter the exposure level with the 10-key.

4. Press the [START] key. Copying is started.

Note: When this simulation is canceled, the display is shifted to the initial menu, but the machine is not reset.

Item Content		Content	Setting range	Default
1	OC	OC	1-99	50
2	SPF(SIDE1)	SPF front surface		
3	SPF(SIDE2)	SPF back surface		





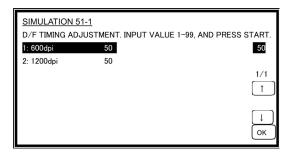
51-1	
Purpose	Adjustment
Function	Used to adjust the OPC drum separation pawl ON
(Purpose)	time.
Section Image process (Photoconductor/Developing/Transfe	
	Cleaning)
Item	Operation

Operation/procedure

Touch the item to be adjusted.
 The item and the currently set value are highlighted.

2. Enter the adjustment value with the 10-key.

Item		Setting range	Default	
1	600dpi	1-99	50	
2	1200dpi			



51-2

1	-
Purpose	Adjustment
Function (Purpose)	Used to adjust the contact pressure of paper onto the resist roller in each section (copier paper feed section, duplex paper feed section, SPF/RSPF paper feed section). (When the print image position varies greatly for the paper or when a lot of paper jam troubles occur, the adjustment is required.)
Section	Paper transport (Discharge/Switchback/Transport)
Item	Operation

Operation/procedure

Touch the item to be adjusted.
 The item and the currently set value are highlighted.

2. Press the [START] key.

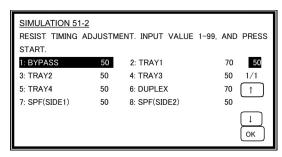
The display is shifted to the copy menu.

Select the paper feed tray and the print density. Enter the adjustment value with the 10-key.

4. Press the [START] key. Copying is started.

Note: When this simulation is canceled, the display is shifted to the initial menu, but the machine is not reset.

Item		Content	Setting range	Default
1	BYPASS	Manual feed	1-99	50
2	TRAY1	1st cassette	1-99	70
3	TRAY2	2nd cassette	1-99	50
4	TRAY3	3rd cassette	1-99	50
5	TRAY4	4th cassette	1-99	50
6	DUPLEX	Back print	1-99	70
7	SPF(SIDE1)	SPF front surface	1-99	50
8	SPF(SIDE2)	SPF back surface	1-99	50



0.0				
Setting				
Used to set the OPC drum separation pawl operation				
inhibit. (ON/OFF)				
Image process (Photoconductor/Developing/Transfer/				
Cleaning)				
Operation				

51-8

Select the set value with the 10-key.

	Item Content		Setting range	Default
0	ON	Enable	0-1	0
1	OFF	Disable		

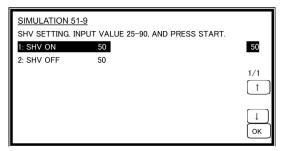
SIMULAT	ION 51-8					
DETACH	FINGER	SETTING.	SELECT	0-1,	AND	PRESS
START.						
0:ON						1
1:OFF						

51-9	
Purpose	Setting
Function	Used to adjust the OPC drum separation voltage ON/
(Purpose)	OFF timing.
Section	Process (OPC drum, developing, transfer, cleaning)
Item	Operation

Operation/Procedure

- Touch the item to be adjusted.
 The item and the currently set value are highlighted.
- 2. Enter the set value with the 10-key.

Item		Content	Setting range	Default
1	SHV ON	Separation voltage ON timing * Transfer V2ON reference (Synchronized with the adjustment value of 50.)	25-90	50
2	SHV OFF			75





53-6	
Purpose	Adjustment
Function	Used to adjust the detection level of the SPF/RSPF
(Purpose)	width. The adjustment method is the 4-point system.
Set the guide to Max. (A3/WLetter) position, A4R/	
	Letter R position, A5R/Invoice R position, and Min.
	position for adjustment.
Section	SPF/RSPF

Operation/Procedure

(Max. position setting)

- Set the guide to the maximum position, and press the [START] key.
 Set WLetter and fit the guide, and press the [START] key.
- 2. Set A4R/Letter R and fit the guide, and press the [START] key.
- Set A5I/Izetter IT and it the guide, and press the [START] key.
 Set A5R/Invoice R and fit the guide, and press the [START] key.
- 4. Set the guide to the minimum position, and press the [START] key.
- 5. Set the paper recognition width (+), and press the [START] key.
- 6. Set the paper recognition width (-), and press the [START] key.

If "FAILED" is displayed in the above procedure 1, 2, 3, or 4, repeat the adjustment.

(Middle position L/S setting)

If the middle position adjustment is not required, press the [START] key without changing the guide position.

Middle position	YES	MID-L ADJ.ON
adjustment L	NO	MID-L ADJ.OFF
Middle position	YES	MID-S ADJ.ON
adjustment S	NO	MID-S ADJ.OFF

AB series

Inch series

SIMULATION 53-6 SPF TRAY ADJUSTMENT. A3 PAPER SET, AND PRESS START KEY.

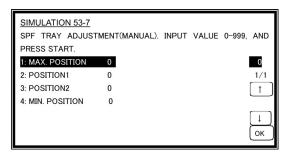
SIMULATION 53-6 SPF TRAY ADJUSTMENT. WLT PAPER SET, AND PRESS START KEY.

53-7	
Purpose	Adjustment
Function	Used to enter the SPF/RSPF width detection
(Purpose)	adjustment value.
Section	SPF/RSPF

Operation/Procedure

- Touch the item to be adjusted.
 The item and the currently set value are highlighted.
- 2. Enter the SPF/RSPF original tray size adjustment value (specified on the back of the SPF/RSPF) with the 10-key.

Item		Content	Setting range	Default
1	MAX POSITION	Max. width	0 - 999	0
2	POSITION 1	Adjustment point 1		
3	POSITION 2	Adjustment point 2		
4	MIN POSITION	Min. width		



53-8	
Purpose	Adjustment
Function (Purpose)	Used to adjust the SPF/RSPF scan position of the mirror unit automatically. For the SPF/RSPF scan position automatic adjustment, the mirror unit is shifted to 11mm before the SPF/RSPF glass cover edge, and is operated automatically to scan images by the unit of 1 step, detecting the position up to the glass cover automatically. (Adjustment value) Default: 50, Adjustment range: 1 - 99 Adjustment unit: 1 = about 0.12mm

With the SPF/RSPF or the OC cover open, put a black background chart on the OC glass (the SPF/RSPF glass surface is included for the SPF/RSPF standard model), and press the [START] key.

If the adjustment is executed normally, the adjustment value is displayed and saved in the EEPROM. If an error occurs, "ERR" is displayed and the value is not saved in the EEPROM.

If the adjustment is not performed because of abnormality, "---" is displayed.

During execution of the adjustment, the operation cannot be interrupted.



61

61-1	
Purpose	Operation test/check
Function	Used to check the LSU (polygon motor) operation.
(Purpose)	
Section	LSU
Item	Operation

Operation/procedure

Press the [START] key, and the LSU test is performed.

Used to set the LSU to ON state and check that the sync signal (HSYNC/) is outputted or not.

After operation for 30 sec, the result is displayed. (Interruption cannot be made for 5 sec after starting the operation.)



63

63-1	
Purpose	Adjustment/setting/operation data output/check
	(display/print)
Function	Used to check the result of shading correction. (The
(Purpose)	shading correction data are displayed.)
Section	Scanner (Exposure)
Item	Operation

Operation/procedure

Pressing the [START] key performs shading, and displays the result (center pixel).



63-7

Purpose	Adjustment
Function	Used to adjust the SPF/RSPF white correction start
(Purpose)	pixel position automatically.
	This adjustment is performed after the lens unit is
	replaced.
Section	Scanner
Item	Operation

Operation/procedure

Set the SPF/RSPF unit OPEN, and press the [START] key.

[] indicates the order number of the pixel of the white sheet for SPF/RSPF exposure correction in the SPF/RSPF position.

If the adjustment is normally completed, "COMPLETE" is displayed and data are written into the EEPROM.

In case of an abnormality, "ERROR" is displayed and no data is written into the EEPROM.

The SPF/RSPF white correction start pixel = Displayed pixel position - 34

If the simulation is executed with the SPF/RSPF unit closed, an error is resulted.



64

64-	
-----	--

Purpose	Operation test/check		
Function	Used to check the operation of the printer function		
(Purpose)	(auto print operation).		
Section	Printer		
Item	Operation		

- 1. Select the print item with the 10-key.
- Press the [START] key. The display is shifted to the copy menu.
- 3. Select the paper feed tray and the print density.
- 4. Press the [START] key. Copying is started.

During execution of copying, the [CUSTOM SETTINGS] key and the [INTERRUPTION] key are invalid.

	Item	Content	Setting range	Default
1	2 BY 4 MODE	Self print is made in 2 by 4 mode (printing 2 lines and not printing 4 lines). Since scanning is not performed, when the original is set on the SPF/RSPF, this cannot be performed. * Duplex print cannot be made.	1-2	1
2	LATTICE PRINT	Lattice print (1cm, 1dot width WLT, A3 print (A3 main scan, WLT sub scan)) is performed. * Duplex print can be made.		

 $^{^{\}star}\,$ If the IMC board is not installed, the key inputs cannot be made.

2: LATTICE PRINT



65-1		65	-1
------	--	----	----

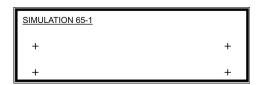
Purpose	Adjustment
Function (Purpose)	Used to adjust the touch panel (LCD display section) detection position.
Section	Operation (Display, Operation)

Operation/Procedure

Press the keys displayed on the LCD sequentially.

Adjust the touch panel coordinates.

When the point of "+" on the LCD is pressed, it turns gray. Press all the four points of "+." $\,$



1		
-	65-2	
	00-2	

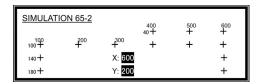
Purpose	Adjustment/Setting/Operation data output check
	(Display, Print)
Function	Used to check the touch panel (LCD display section)
(Purpose)	detection position adjustment result.
Section	Operation (Display, Operation)

Operation/Procedure

Check the touch panel coordinates.

Press the keys displayed on the LCD sequentially.

When the touch panel is pressed, the X-coordinate and the Y-coordinate (dot conversion values) are displayed.



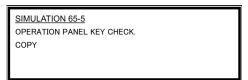
Purpose	Adjustment/Setting/Operation data output check			
	(Display, Print)			
Function	Used to check the key inputs of the operation panel.			
(Purpose)				
Section	Operation (screen/operation)			

Operation/procedure

Check the key input of the operation panel.

Press the keys displayed on the LCD sequentially.

After completion of all key entries, "COMPLETE" is displayed.





66-	
-----	--

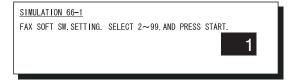
Purpose	Setting
Function (Purpose)	Used to change and check the FAX-related soft SW.
Section	FAX

Operation/procedure

- 1. Enter the soft SW number to be selected with the 10-key.
- 2. Check and change the setting content of the selected soft SW.
- 3. Press the [START] key to save the set content.

The FAX-related soft SW is displayed on the LCD, and changing can be made by monitoring it.

Note: Executable only when the FAX is installed.



66-2

Purpose	Adjustment	
Function	Used to clear the FAX-related soft SW. (Except for the	
(Purpose)	FAX adjustment values)	
Section	FAX	

Operation/procedure

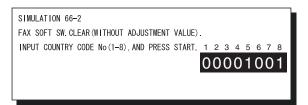
- Enter the country code with the 10-key, and press the [START] key.
- When "1: (YES)" is selected, the soft SW corresponding to the country code is cleared. When "2: (NO)" is selected, the simulation is canceled.

Country code

: 00000000 Japan U.S.A. : 10110101 Australia : 00001001 U.K : 10110100 France : 00111101 Germany : 00000100 Sweden : 10100101 New Zealand: 01111110 China : 00100110 Singapore : 10011100 TW : 11111110 Other 1 : 11111101 Other 2 : 11111100 Other 3 : 11111011

The codes other than the above are accepted as Japan.

Note: Executable only when the FAX is installed.



66-3			
Purpose	Operation test/check		
Function (Purpose)	FAX PWB memory check		
Section	FAX		

Operation/procedure

Item

Press the [START] key.

Read/write can be checked for FAX PWB memory.

The check result is displayed separately for each memory.

Operation

1. Memory to be checked

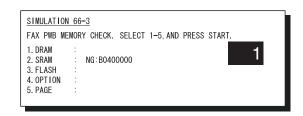
Program area	SUM check only
Memory area	
	The memory size follows the automatically detected value.

2. Detailed procedure

1	"55H" is written to all the addresses of each memory, and the address data are read in sequence to check that they were properly written.
2	"AAH" is written to all the addresses of each memory, and the address data are read in sequence to check that they were properly written.
3	"00H" is written to all the addresses of each memory, and the address data are read in sequence to check that they were properly written.
4	Perform checks 1 - 3 sequentially. If there is no abnormality, it is "OK." If there is any abnormality, "NG" is notified to the error address.
5	After completion of check, the memory is returned to the initial state. (CPU is not reset)

Interruption cannot be made during operation.

Note: Executable only when the FAX is installed.



66-4			
Purpose	Operation test/check		
Function	Signal send mode (Signal send level: Max.)		
(Purpose)			
Section	FAX		
Item	Operation		

Operation/procedure

Select the signal number with the 10-key, and press the [START] key. The signal is sent to the line and the machine speaker. (Sending the signal is continued until the [CUSTOM SETTINGS] key is pressed.)

By entering the signal number and pressing the [START] key during execution, the signal kind can be changed.

execution, the signal kind can be changed.					
Item		Send signal	Send level Selection menu		
1	NO SIGNAL	Signal not sent	None		
2	33.6 V34	_	_		
3	31.2 V34	_	_		
4	28.8 V34	_	_		
5	26.4 V34	_	_		
6	24.0 V34	_	_		
7	16.0 V34	_	_		
8	19.2 V34	_	_		
9	16.8 V34	_	_		
10	14.4 V34	_	_		
11	12.0 V34	_	_		
12	9.6 V34	_	_		
13	7.2 V34	_	_		
14	4.8 V34	_	_		
15	2.4 V34	_	_		
16	14.4 V33	_	_		
17	12.0 V33	_	_		
18	14.4 V17	_	_		
19	12.0 V17	_	_		
20	9.6 V17	_	_		
21	7.2 V17	_	_		
22	9.6 V29	_	_		
23	7.2 V29	_	_		
24	4.8 V27t	_	_		
25	2.4 V27t	_	_		
26	0.3 FLG	7EH Flag signal	Yes		
27	CED2100	Tone signal	Yes		
28	CNG1100				
29	0.3 V21				
30	ANSam				
31	RINGER	Pseudo-ringer sound ([ON HOOK] key ON)	None		
32	No MSG	Voice message (no sound)	None		
		Under the state where the ring back			
		tone can be sent to the line, keep the sound composition IC volume to 0.			
33	No RBT	Ring back tone (no sound)	None		
		Under the state where the ring back			
		tone can be sent to the line, keep the			
		G/A volume to 0.			

Item		Send signal	Send level Selection
			menu
34	DP MAKE	Dial pulse (make)	1: 0dB
		Maintain the make state with keeping	2: Soft SW
		the condition to be able to send to the	
		dial pulse line.	
35	DP BRK	Dial pulse (break)	1: 0dB
	Maintain the break state with keeping		2: Soft SW
		the condition to be able to send to the	
		dial pulse line.	

Note: Executable only when the FAX is installed.

SIMULATION 66	<u>-4</u>			
SIGNAL OUTPUT	CHECK (LEVEL	MAX). SELECT	1-35, AND PRESS	START.
1. NO SIGNAL 5. 26.4 V34 9. 16.8 V34 13. 7.2 V34 17. 12.0 V33 21. 7.2 V17 25. 2.4V27t 29. 0.3 V21 33. NO RBT	6. 24. 0 V34 10. 14. 4 V34 14. 4. 8 V34 18. 14. 4 V17 22. 9. 6 V29 26. 0. 3 FLG 30. ANSam	11. 12. 0 V34 15. 2. 4 V34 19. 12. 0 V17 23. 7. 2 V29 27. CED 2100 31. RINGER	12. 9.6 V34 16. 14.4 V33 20. 9.6 V17 24. 4.8 V27t 28. CNG 1100	1

66-5

Purpose	Operation test/check	
Function	Signal send mode (Signal send level soft SW setting)	
(Purpose)		
Section	FAX	
Item	Operation	

Select the signal number with the 10-key, and press the [START] key.

By setting the signal number, signals are sent to the line and the machine speaker. (Sending signals is continued until interruption command is made (by pressing [CUSTOM SETTINGS] key.)

By entering the signal number and pressing the [START] key during execution, the signal kind can be changed.

Si	gnal number	Send signal	Send level Selection menu
1	NO SIGNAL	Signal not sent	None
2	33.6 V34	33.6 V34	_
3	31.2 V34	31.2 V34	_
4	28.8 V34	28.8 V34	_
5	26.4 V34	26.4 V34	_
6	24.0 V34	24.0 V34	_
7	16.0 V34	16.0 V34	_
8	19.2 V34	19.2 V34	_
9	16.8 V34	16.8 V34	_
10	14.4 V34	14.4 V34	_
11	12.0 V34	12.0 V34	_
12	9.6 V34	9.6 V34	_
13	7.2 V34	7.2 V34	_
14	4.8 V34	4.8 V34	_
15	2.4 V34	2.4 V34 –	
16	14.4 V33	14.4 V33	_
17	12.0 V33	12.0 V33	_
18	14.4 V17	14.4 V17	_
19	12.0 V17	12.0 V17	_
20	9.6 V17	9.6 V17	_
21	7.2 V17	7.2 V17	_
22	9.6 V29	9.6 V29	_
23	7.2 V29	7.2 V29	_
24	4.8 V27t	4.8 V27t	_
25	2.4 V27t	2.4 V27t	
26	0.3 FLG	7EH Flag signal	Yes

Si	gnal number	Send signal	Send level Selection
07	0550400	Touristance	menu
27	CED2100	Tone signal	Yes
28			
29	0.3 V21		
30	ANSam		
31	RINGER	Pseudo-ringer sound	None
		([ON HOOK] key ON)	
32	No MSG	Voice message (no sound)	None
		Under the state where the ring back	
		tone can be sent to the line, keep the	
		sound composition IC volume to 0.	
33	No RBT	Ring back tone (no sound)	None
		Under the state where the ring back	
		tone can be sent to the line, keep the	
		G/A volume to 0.	
34	DP MAKE	Dial pulse (make)	1: 0dB
		Maintain the make state with keeping	2: Soft SW
		the condition to be able to send to the	
		dial pulse line.	
35	DP BRK	Dial pulse (break)	1: 0dB
		Maintain the break state with keeping	2: Soft SW
		the condition to be able to send to the	
		dial pulse line.	

Note: Executable only when the FAX is installed.

SIGNAL OUTPUT CHECK (SOFT SW.). SELECT 1-35, AND PRESS START. 1. NO SIGNAL 2. 33.6 V34 3. 31.2 V34 4. 28.8 V34
1. NO SIGNAL 2. 33.6 V34 3. 31.2 V34 4. 28.8 V34
5. 26. 4 V34 6. 24. 0 V34 7. 21. 6 V34 8. 19. 2 V34 9. 16. 8 V34 10. 14. 4 V34 11. 12. 0 V34 12. 9. 6 V34
13. 7. 2 V34 14. 4. 8 V34 15. 2. 4 V34 16. 14. 4 V33 17. 12. 0 V33 18. 14. 4 V17 19. 12. 0 V17 20. 9. 6 V17 21. 7. 2 V17 22. 9. 6 V29 23. 7. 2 V29 24. 4. 8 V27t
25. 2. 4V27t 26. 0.3 FLG 27. CED 2100 28. CNG 1100 29. 0.3 V21 30. ANSam 31. RINGER 32. No RBT 33. No RBT 34. DP MAKE 35. DP BRK

66-6

Purpose	Data output, check		
Function (Purpose) Printing the co		onfidential password	
Section	tion FAX		
Item	Data	Confidential/Pass code	

Operation/procedure

Press the [START] key.

The confidential ID table (confidential BOX numbers, confidential BOX names, and confidential password) is printed.

The confidential data of My company mode is printed separately.

Note: Executable only when the FAX is installed.



66-7

Purpose	Data output, check	
Function (Purpose)	Print the screen memo	ry contents
Section	FAX	
Item	Data	Image data

Operation/procedure

Press the [START] key.

Used to input all image data (including confidential reception data, remote send image, not-sent image) stored in image memory of the FAX section.

The output image is remained even after outputting.

Note: Executable only when the FAX is installed.



66-8		
Purpose	Operation test/check	
Function (Purpose) Voice Message send (Signal send level:		
	Max.) (Japan only)	
Section FAX		
Item	Operation	

Operation/procedure

Select the message number with the 10-key, and press the [START] key.

By setting the message No., the sound message is sent to the line and the speaker of the body. (The message is repeated until the interruption command is provided by pressing the [CUSTOM SETTINGS] key.) By pressing the [START] key during execution, the signal kind can be changed.

	5				
Item		Voice message			
1	NONE	Silent			
2	FAX/TEL MSG1	"Hold the line a minute, please send fax." (TEL/FAX voice response)			
3	FAX/TEL MSG2	"Hold the line a minute." (TEL/FAX voice response)			
4	FAX/TEL MSG3	"Not around here, please send fax." (TEL/FAX voice response)			
5	CHANGED RX MSG	"Ding Dong" (Sound delivered when switching to remote reception)			
6	RINGER	Call sound			
7	EXT.TEL RINGER	External telephone call			

Message No. 5 can be heard by an external telephone speaker. Note: Executable only when the FAX is installed.

SIMULATION 66-8
MESSAGE OUTPUT CHECK(LEVEL MAX). SELECT1-7, AND PRESS START.
1. NONE 2. FAX/TEL MSG1 3. FAX/TEL MSG2 4. FAX/TEL MSG3 5. CHNGED RX MSG 6. RI NGER
7. EXT. TELRINGER

66-9		
Purpose Operation test/check		
Function Used to send the voice message. (Signal send level:		
(Purpose) Set by soft SW.) (Japan only)		
Section FAX		
Item Operation		

Operation/procedure

Select the message number with the 10-key, and press the [START] key.

By setting the message No., the sound message is sent to the line and the speaker of the body. (The message is repeated until the interruption command is provided by pressing the [CUSTOM SETTINGS] key.) By pressing the [START] key during execution, the signal kind can be changed.

	Item	Voice message
1	NONE	Silent
2	FAX/TEL MSG1	"Hold the line a minute, please send fax."
		(TEL/FAX voice response)
3	FAX/TEL MSG2	"Hold the line a minute."
		(TEL/FAX voice response)
4	FAX/TEL MSG3	"Not around here, please send fax."
		(TEL/FAX voice response)
5	CHANGED RX MSG	"Ding Dong"
		(Sound delivered when switching to remote
		reception)
6	RINGER	Call sound
7	EXT.TEL RINGER	External telephone call

Message No. 5 can be heard by an external telephone speaker.

Note: Executable only when the FAX is installed.



66-10		
Purpose	Purpose Adjustment/Setting/Check	
Function (Purpose)	Image data memory clear	
Section	FAX	
Item	Data	Image data

Operation/procedure

Select "1: YES" with the 10-key and press the [START] key. (When "2: NO" is selected, the simulation is canceled.)

Used to clear all image data (including confidential reception data) stored in image memory of the FAX section.

The management table is also cleared (initialized) at the same time.

* Ilf there is any print data, the power must be turned off after clearing. Note: Executable only when the FAX is installed.



66-11	
Purpose	Operation test/check
Function	Used to send 300bps signals. (Signal send level:
(Purpose)	Max.)
Section	FAX
Item	Operation

Operation/procedure

Select the signal number with the 10-key, and press the [START] key. By setting the signal number, the specified signal is delivered to the

line at the speed of 300bps. (The signal is continuously sent until the interruption command is provided by pressing the [CUSTOM SETTINGS] key.)

The signal send level can be selected from 0dB or the soft SW set value.

The signal send level is returned to the soft SW set value before execution of the mode after completion of the mode.

By entering the number and pressing the [START] key during execution, the signal kind can be changed.

Item		
1	1 NO SIGNAL	
2	11111	
3	11110	
4	00000	
5	010101	
6	00001	



66-12

Purpose	Operation test/check
Function (Purpose)	Used to send 300bps signals. (Signal send level: Set by soft SW)
Section	FAX
Item	Operation

Operation/procedure

Select the signal number with the 10-key, and press the [START] key. By setting the signal number, the specified signal is delivered to the line at the speed of 300bps. (The signal is continuously sent until the interruption command is provided by pressing the [CUSTOM SETTINGS] key.)

The signal send level can be selected from 0dB or the soft SW set value.

The signal send level is returned to the soft SW set value before execution of the mode after completion of the mode.

By entering the number and pressing the [START] key during execution, the signal kind can be changed.

Item		
1	1 NO SIGNAL	
2	11111	
3	11110	
4	00000	
5	010101	
6	00001	

Note: Executable only when the FAX is installed.

```
| SIMULATION 66-12
300bps SIGNAL OUTPUT(SOFT SW.). SELECT 1-6, AND PRESS START.
1. NO SIGNAL
2. 11111
3. 11110
4. 00000
5. 010101
6. 00001
```

66-13

Purpose	Setting	
Function (Purpose)	Used to register the dial numbers.	
Section	FAX	
Item	Operation	

Operation/procedure

Enter the number with the 10-key, [*] key, and [#] key.

Press the [CLEAR] key to return to the initial state.

Press the [START] key to register the entered number.

Note: Executable only when the FAX is installed.

SIMULATION 66-13
DIAL TEST NUMBER SETTNG, INPUT NUMBER AND PRESS START.
0-9: [0-9],*:[*], #:[#]
0123456789*#01234567

Purpose	Operation check/test
Function	Used to perform the dial test. (10 PPS send test)
(Purpose)	
Section	FAX
Item	Operation

Operation/Procedure

- 1. Select the item with the 10-key, and press the [START] key.
- 2. Set the make time with the 10-key.

The dial is sent with the set value + 26ms.

The sending dial cannot be interrupted.

	Item	Content	Setting range
0	EXECUTE	Execution	-
1	MAKE TIME	Dial pulse make time setting	0-15

Note: Executable only when the FAX is installed.



66-15

Purpose	Operation check/test
Function (Purpose)	Used to perform the dial test. (20 PPS send test)
Section	FAX
Item	Operation

Operation/Procedure

- 1. Select the item with the 10-key, and press the [START] key.
- 2. Set the make time with the 10-key.

The dial is sent with the set value + 26ms.

The sending dial cannot be interrupted.

	Item	Content	Setting range
0	EXECUTE	Execution	-
1	MAKE TIME	Dial pulse make time setting	0-15

Note: Executable only when the FAX is installed.



66-16

Purpose	Operation check/test	
Function	Used to perform the dial test. (DTFM signal send test)	
(Purpose)		
Section	FAX	
Item	Operation	

Operation/Procedure

- 1. Select the item with the 10-key, and press the [START] key.
- 2. Enter the set value with the 10-key.

The sending dial cannot be interrupted.

Item		em Content	
0	EXECUTE	Execution	1
1	HIGH (SW)	High group	0-15
2	HIGH-LOW (SW)	High group, Low group	0-15

3. Select the soft SW reflection.

Item		Content
1	NO STORE TO SW	Not reflected.
2	STORE TO SW	Reflected. (Shift SW value changed.)



66-17	
Purpose	Operation check/test
Function	Used to check the DTFM signal send ope

Function	Used to check the DTFM signal send operation.	
(Purpose)	(Signal send level: Max.)	
Section FAX		
Item	Operation	

Operation/procedure

Enter the DTFM signal (1 digit (1 to 9, 0, * , #)) and press the [START] key.

When the [CUSTOM SETTINGS] key is pressed during execution, the simulation is terminated.

Note: Executable only when the FAX is installed.



66-18		
Purpose	Operation check/test	
Function Used to check the DTFM signal send operation. (Purpose) (Signal send level: Set by soft SW.)		
Section FAX		
Item	Operation	

Operation/Procedure

Enter the DTFM signal (1 digit (1 to 9, 0, * , #)) and press the [START] key.

When the [CUSTOM SETTINGS] key is pressed during execution, the simulation is terminated.

Note: Executable only when the FAX is installed.

SIMULATION 66-18
DTMF SIGNAL OUTPUT(SOFT SW.). INPUT 0-9, *, #, AND PRESS START.

66-19	
Purpose	Back up
Function	Used to write the SRAM data to the Flash ROM.
(Purpose)	
Section	EAV

Operation/Procedure

Data

Item

Select "1: YES" with the 10-key, and press the [START] key. The data are backed up. (When "2: NO" is selected, the simulation is canceled.)

* The AR-FX5 data cannot be written into the AR-FX7. If it is executed, data are initialized and deleted. In addition, the AR-FX7 data cannot be used in the AR-FX5.

Note: Executable only when the FAX is installed.

SIMULATION 66-19		
SRAM BACK UP. (WR	TE TO FLASH ROM) ARE YOU SURE?	
1. YES		
2. NO		

Purpose	Back up
Function (Purpose)	Used to write the Flash ROM data to the SRAM.
Section	FAX
Item	Data

Operation/Procedure

Select "1: YES" with the 10-key, and press the [START] key. The Flash ROM data are read out and written into the SRAM. (When "2: NO" is selected, the simulation is canceled.)

* The AR-FX5 data cannot be written into the AR-FX7. If it is executed, data are initialized and deleted. In addition, the AR-FX7 data cannot be used in the AR-FX5.

Note: Executable only when the FAX is installed.

SIMULATION 66-20 SRAM BACK UP. (READ 1. YES 2. NO	FROM FLASH ROM)	ARE YOU SURE?	1

66-21

Purpose	Check
Function (Purpose)	FAX information print
Section	FAX
Item	Data

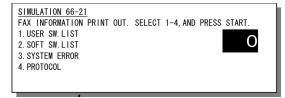
Operation/procedure

- 1. Select the item to be printed.
- 2. Press the [START] key.

The information of the selected item is printed.

	Item	Content
1	USER SW.LIST	User setting list
2	SOFT SW.LIST	Soft SW list
3	SYSTEM ERROR	System error list Used to print the system error log (error number and time).
4	PROTOCOL	Protocol error list Regardless of soft SW38-1 status, the protocol monitor of the preceding communication is printed. (Printing is allowed at any time before starting the next communication.) For this operation, the protocol monitor of one communication is always buffered.

Note: Executable only when the FAX is installed.



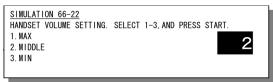
66-22

Purpose	Setting
Function (Purpose)	Handset sound volume adjustment (Japan only)
Section	FAX
Item	Operation

Operation/procedure

- 1. Select the set volume. (Max., Middle, Min.)
- 2. Press the [START] key.

Switch of 1, 2, and 3 can be made during execution of the simulation. During execution of the simulation, sounds are generated.





Purpose	Data clear		
Function (Purpose)	Used to clear the FAST storage data. (SEC only)		
Section	FAX		
Item	Data	Initializing	

Operation/procedure

Select "1: YES" with the 10-key and press the [START] key. The FAST storage data are cleared. (When "2: NO" is selected, the simulation is canceled.)

Note: Executable only when the FAX is installed.

```
SIMULATION 66-24
FAST MEMORY DATA CLEAR. ARE YOU SURE?
1. YES
2. NO
```

66-30

Purpose	Purpose Operation test/check	
Function (Purpose)	Used to set the TEL/LIU.	
Section	FAX	
Item	Operation	

Operation/procedure

When the relay state of the polarity reverse relay, the handset hook switch, or the external telephone hook switch is changed, the content of change is displayed regardless of the soft SW setup (real time). The display of change is kept until an interruption command is supplied by pressing the [CUSTOM SETTINGS] key.

ltem	Notification contents		
item	Signal low	Signal high	
HS2	ON	OFF	
HS1	ON	OFF	
RHS	ON	OFF	
EXHS	ON	OFF	

Note: Executable only when the FAX is installed.

	,			
SIMULATION TEL/LIU SE	66-30 NSOR CHECK.			
HS2 :***	HS1 :***	RHS :***	EXHS :***	

66-31

Purpose	Setting
Function (Purpose)	Used to set the TEL/LIU.
Section	FAX
Item	Operation

Operation/Procedure

- 1. Enter the set value. (Valid only 0 to 8)
- 2. The entered bit is alternatively switched between "0" and 1" and the target signal name is highlighted.
- 3. Press the [START] key to send the signal.

When the [CUSTUM SETTINGS] key is pressed, the output is terminated.

Note: Executable only when the FAX is installed.

SIMULATION 66-31 TEL/LIU SETTING. INPUT 1-5. AND I	
1. C10N 2. 150VON	00001
3. EC 4. S. 5. MSR.	

30-3∠

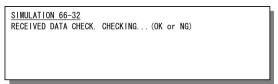
Purpose	Operation test/check	
Function (Purpose)	Receive data check	
Section	FAX	
Item	Operation	

Operation/procedure

The fixed data received from the line are checked and the result is displayed.

When data are coincident, "OK" is displayed. When not, "NG" is displayed.

Note: Executable only when the FAX is installed.



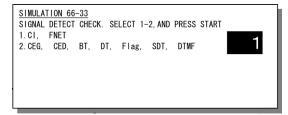
66-33

Purpose	Operation test/check
Function (Purpose)	Signal detection check
Section	FAX
Item	Operation

Operation/Procedure

Signal detection is checked and the result is displayed.

Note: Executable only when the FAX is installed.



66-34

Purpose	Operation test/check
Function (Purpose)	Communication time measurement display
Section	FAX
Item	Operation

Operation/procedure

The send/receive test is performed, and the time required for send/receive of the image data in the test is measured and displayed.

ŭ			
Setup on the user		Communication	: Memory send
side when executing		means	: Normal Character
communication		Picture quality	: Lighter
		Density	: ON
		ECM	: OFF
		Sender informatio	n
Measuring	Send	From flag reception before sending of	
range		image data until sending of RCP frame	
	Receive	From flag reception before reception of image data until reception of RCP frame	

Mode when measuring	Used to make communication not in a simulation process but in the normal screen and measure the time.
	and measure the time.
How to check the time	Enter the simulation for communication time check and check the time.
	Check and check the time.
Measuring unit	msec

When there are two or more send/receive operations of image data in one communication, only the time of the last send/receive data near the end is measured.

Note: Executable only when the FAX is installed.



66-37	

Purpose	Adjustment/Setting/Check
Function (Purpose)	Speaker sound volume adjustment
Section	FAX

Operation/procedure

The following test sound is delivered to the line and the speaker to adjust the sound kind and volume.

The send level to the line is the set value of soft SW.

The set values of the selected sound kind and volume are written to each soft SW.

1. Sound kinds pattern

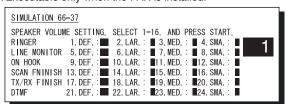
Sound kinds (Test sound)			d volur	ne set	value
RINGER	Call sound	DEF.	LAR.	MED.	SMA.
LINE MONITO	Line monitor sound (Test sound: communication signal sound)	DEF.	LAR.	MED.	SMA.
ON HOOK	On-hook (Test sound, communication signal sound)	DEF.	LAR.	MED.	SMA.
SCAN FINISH	Scan finish sound	DEF.	LAR.	MED.	SMA.
TX/RX FINISH	Communication finish sound	DEF.	LAR.	MED.	SMA.
DTMF DTFM send sound		DEF.	LAR.	MED.	SMA.

LAR: (MED. Value + 1)

MED: (SMA value +1) - (LAR value - 1)

SMA: 1 - (MED. Value + 1)
2. Sound volume pattern

Note: Executable only when the FAX is installed.



66-41

Purpose	Adjustment/Setting/Check				
Function	CI signal check				
(Purpose)					

Operation/procedure

When the [START] key is pressed, the call signal from CI pin is detected to deliver the call sound to the line and the speaker. The volume of call sound follows the soft SW.

Signal detection and delivery of pseudo-call sound at detection are executed until the interruption command is provided by pressing the [CUSTOM SETTINGS] key.

Note: Executable only when the FAX is installed.

SIMULATION 66-41 CI SIGNAL DETECT CHECK. PRESS START

67

67-1					
Purpose	Operation test/check				
Function	Used to execute read/write check of the RAM on the				
(Purpose)	PCL board, and to display the result. (To be supported				
	for MCU v00.45 or later)				
Section	Printer				
Itom	Operation				

Operation/Procedure

Press the [START] key.

Read/write check of the RAM on the PCL board is performed and the result is displayed.

The presence of DIMM is detected. If there is no DIMM, "---" is displayed. If there is, read/write check is performed and the result is displayed.

The display of "---" is changed to "CHECKING," "OK," or "NG" according to the message number included in the continuation command.

When the simulation is completed normally, "COMPLETE" is displayed. (No display for abnormal completion.)

Since only the devices installed to the PCL board are checked when the simulation is started, the display may not be changed from "---." (No message is sent for an uninstalled device.)

Key operations on each display

(Initial display)

Pressing the [INTERRUPT] key shifts the display to the previous menu. Pressing the [CA] key leads to resetting. Pressing the [C] key, and the [CUSTOM SETTINGS] key is invalid. (Beep sound)

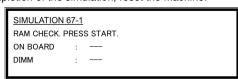
(Display during execution)

During execution, the [INTERRUPT] key, [C] key, and the [CA] key are invalid. (Beep sound). The [CUSTOM SETTINGS] key produces a valid sound only.

(Check end display)

After execution, the [INTERRUPT] key and the [C] key are invalid. (Beep sound). Pressing the [CA] key leads to resetting. The [CUSTOM SETTINGS] key produces a valid sound only.

After completion of the simulation, reset the machine.



67-11

Purpose	Purpose Setting		
Function (Purpose)	Used to set the select-in signal of the Centro port.		
Section Printer			
Item	Operation		

Operation/procedure

Enter the set value with the 10-key, and press the [START] key.

Setting range	0-1
Default	0

* Execution of the simulation which performs communication with the PCL board is inhibited until Notice Page storage is completed. (Only when the serviceman call error occurs.)

* In the other case than the serviceman call error, entering the simulation is inhibited during the system check operation is displayed.

Note: Executable only when the PCL is installed.

SIMULATION 67-11
CENTRO SELECT IN SIGNAL SETTING. SELECT 0-1, AND PRESS START.
0:ON
1:OFF

67-14

Purpose	Flash ROM version up
Function	Used to check write/comparison of flash programs.
(Purpose)	
Section	Printer
Item	Operation

Operation/procedure

- Press the [START] key.
 "PLEASE SEND DATA" is displayed.
- Data are sent from the PC (MS-DOS) by use of "fcopy" command (FCOPY: file name). (Refer the "[7] FLASH ROM VERSION UP PROCEDURE")

Used to overwrite and check the flash device while displaying its process status.

After completion, the result is displayed.

3. Press the [CA] key to cancel the simulation and reset.

(Flash Device)
PROGRAM
BOOTROM
PS KANJI FONT
ESC/P KANJI FONT
OPTION FONT

(Processing state)
RECEIVE
ERASE
WRITE
VERIFY

- * Execution of the simulation which performs communication with the PCL board is inhibited until Notice Page storage is completed. (Only when the serviceman call error occurs.)
- * In the other case than the serviceman call error, entering the simulation is inhibited during the system check operation is displayed.

SIMULATION 67-14
FLASH ROM PROGRAM WRITE CHECK/COMPARE CHECK.
PRESS START.

67-15

Purpose	Operation test/check	
Function	ion Used to check the validity of the ROM on the PCL	
(Purpose)	se) board and the result is displayed. (To be supported for	
	MCU v00.45 or later)	
Section	Printer	
Item	Operation	

Operation/procedure

Press the [START] key.

Each ROM on the PCL board is checked and the result is displayed.

The display of "---" is changed to "CHECKING," "OK," or "NG" according to the message number included in the continuation command.

When the simulation is completed normally, "COMPLETE" is displayed. (No display for abnormal completion.)

Since only the devices installed to the PCL board are checked when the simulation is started, the display may not be changed from "---." (No message is sent for an uninstalled device.)

Key operations on each display

(Initial display)

Pressing the [INTERRUPT] key shifts the display to the previous menu. Pressing the [CA] key leads to resetting. The [C] key and the [CUSTOM SETTINGS] key are invalid. (Beep sound).

(Execution display)

During execution, the [INTERRUPT] key, the [C] key, and the [CA] key are invalid. (Beep sound). Pressing the [CUSTOM SETTINGS] key produces a valid sound only.

(Check end display)

After execution, the [INTERRUPT] key and the [C] key are invalid. (Beep sound). Pressing the [CA] key leads to resetting. Pressing the [CUSTOM SETTINGS] key produces a valid sound only.

After completion of the simulation, reset the machine.

SIMULATION 67-15		
ROM CHECK. F	RES	S START.
BOOT ROM	:	
MT FONT	:	
PROGRAM	:	
ESC/P KANJI	:	
PS KANJI	:	
OPTION	:	

67-17

Purpose	Data clear
Function	Used to clear the printer section setting. (NVRAM
(Purpose)	clear)

Operation/procedure

- Press the [START] key.
 The confirmation dialogue is displayed.
- 2. Select "1: YES" with the 10-key and press the [START] key.
 - 1: YES (Cleared)
 - 2: NO (Not cleared) (Default)

If there is no abnormality after Clear operation, "COMPLETE" is displayed. If there is any abnormality, "ERROR" is displayed.

- * Execution of the simulation which performs communication with the PCL board is inhibited until Notice Page storage is completed. (Only when the serviceman call error occurs.)
- * In the other case than the serviceman call error, entering the simulation is inhibited during the system check operation is displayed.

Note: Executable only when the PCL is installed.



67-18

	-
Purpose	Data clear
Function	Used to clear the data area for FLASH ROM Network
(Purpose)	Scanner Application.

Operation/procedure

- Press the [START] key.
 The confirmation dialogue is displayed.
- 2. Select "1: YES" with the 10-key and press the [START] key.
 - 1: YES (Cleared)
 - 2: NO (Not cleared) (Default)

If there is no abnormality after Clear operation, "COMPLETE" is displayed. If there is any abnormality, "ERROR" is displayed.

- * Execution of the simulation which performs communication with the PCL board is inhibited until Notice Page storage is completed. (Only when the serviceman call error occurs.)
- * In the other case than the serviceman call error, entering the simulation is inhibited during the system check operation is displayed.

Note: Executable only when the PCL is installed.

SIMULATION 67-18

FLASH ROM NETWORK SCANNER APPLICATION DATA CLEAR. PRESS START.

.

67-20

Function (Purpose) Used to check the network connection when the scanner option is installed.

Operation/procedure

The network scanner is checked.

1. Press the [START] key.

"PLEASE SEND DATA" and "READY" are displayed. (When the PCL board is installed, it takes some time to display "READY.")

2. Boot "ftp" from MS-DOS.

Data are sent from the PC by the put file name.

The process is displayed. Check the display.

(TEST DATA)

TEST DATA

(Process status)

RECEIVE

TESTING

After completion, the result is displayed.

When the simulation is completed normally, "COMPLETE" is displayed. (No display for abnormal completion.)

Pressing [CA] key cancels the simulation resets the operation.

- * Execution of the simulation which performs communication with the PCL board is inhibited until Notice Page storage is completed. (Only when the serviceman call error occurs.)
- * In the other case than the serviceman call error, entering the simulation is inhibited during the system check operation is displayed.

Note: Executable only when PCL and NIC are installed.

SIMULATION 67-20

NETWORK SCANNER TEST. PRESS START.

[9] TROUBLE CODE LIST

1. List

Trouble code					
Main	Sub	Trouble contents	Trouble		
code	code	Trouble demonie	detection		
A0	01	Security incompatibility error			
E1	00	IMC board communication trouble	MCU		
	10	IMC board trouble			
	11	IMC ASIC error			
	12	IMC CODEC error			
	13	IMC board flash ROM error			
	14	IMC board expaned memory module			
	14	(DIMM) error			
	15	IMC board Page Memory error/SRAM error			
	16	IMC board image compression store memory error			
	17				
		IMC board smoothing IC error			
	80	IMC PWB communication trouble			
	01	(protocol) IMC PWB communication trouble (Parity)			
	81 82	, , , ,			
	82	IMC PWB communication trouble (Overrun)			
	84	IMC PWB communication trouble			
	04	(Framing)			
	88	IMC PWB communication trouble (Time-			
	00	out)			
E7	02	LSU trouble			
	10	Shading trouble (black correction)			
	11	Shading trouble (white correction)			
	12	Shading trouble			
F1	00	Finisher communication trouble	FIN		
	01	Finisher jogger shift trouble			
	06	Finisher shift motor abnormality			
	08	Finisher staple shift motor trouble			
	11	Pusher motor trouble			
	15	Finisher elevator motor trouble			
F2	02	Toner supply failure			
12	04	Identification error			
	04	Model error			
		Type error			
		Destination error			
		Data abnormality			
		Misc error			
EE	02				
F5 F6	02	Copy lamp lighting abnormality MCU-FAX communication trouble	MCU		
1.0	10	FAX control PWB trouble	IVICO		
	80	FAX control PWB communication trouble			
	οU	(Protocol)			
	81	FAX control PWB communication trouble			
	01	(Parity)			
	82	FAX control PWB communication trouble			
		(Over-run)			
	84	FAX control PWB communication trouble			
		(Framing)			
	88	FAX control PWB communication trouble (Timeout)			
	99	FAX control PWB destination error			

Trouble	e code		
Main	Sub	Trouble contents	Trouble
code	code		detection
F9	00	MCU-PRT communication trouble	MCU
	10	Printer PWB trouble	
	80	Printer PWB communication trouble	
		(Protocol)	
	81	Printer PWB communication trouble	
		(Parity)	
	82	Printer PWB communication trouble	
		(Overrun)	
	84	Printer PWB communication trouble	
		(Framing)	
	88	Printer PWB communication trouble	
	00	(Timeout)	
110	99	Machine-PCL board language error	
H2	00	Main heater lamp thermistor open hard	
	01	detection Sub heater lamp thermistor open hard	
	01	detection	
H3	00	Main heater lamp abnormally high	
110	00	temperature hard detection trouble	
	01	Sub heater lamp abnormally high	
	•	temperature hard detection trouble	
	10	Main heater lamp abnormally high	
		temperature soft detection trouble	
	11	Sub heater lamp abnormally high	
		temperature soft detection trouble	
H4	00	Main heater lamp abnormally low	
		temperature detection	
	01	Sub heater lamp abnormally low	
	00	temperature detection	
	20	Main heater lamp abnormally low temperature detection	
	21	Sub heater lamp abnormally low	
	21	temperature detection	
H5	01	10 continuous POD1, POD2 or PPD2	
		JAM	
L1	00	Scanner feed trouble	
L3	00	Scanner return trouble	
L4	01	Main motor trouble	
	11	Shifter motor trouble	
L6	10	Polygon motor trouble	
L8	10	Power abnormality detection trouble	
U1	01	FAX battery error	
	02	PANEL LOW battery error	
U2	04	EEPROM communication error	
	20	Machine speed code data error	
	40	CRUM chip communication error	
U7	00	RIC communication trouble	ODE
U9	00	MCU-OPE communication trouble	OPE
	80	Operation control PWB communication	
	81	trouble (Protocol) Operation control PWB communication	
	01	trouble (Parity)	
	82	Operation control PWB communication	
	-	trouble (Overrun)	
	84	Operation control PWB communication	
		trouble (Framing)	
	88	Operation control PWB communication	
		trouble (Time-out)	
	99	Operation panel language error	
EE	EL	Developer adjustment trouble (Over-toned	
		abnormality)	
	EU	Developer adjustment trouble (Under-	
PF	00	toned abnormality)	
ET.	00	RIC copy inhibit signal received	

2. Self diagnostics

	uble		
СО	de		Details of trouble
Main	Sub		Botalio of trouble
code	code		
Α0	01	Content	Security incompatibility error
		Details	When the PCL or the FAX board is
			installed, it does not match with
			compatible/incompatible setup of the MCU
			board security.
		Cause	The security compatibility/incompatibility of
		Cause	the installed PCL or FAX board does not
			match with that of the MCU board.
		Check	Cheek the security compatibility/
		and	incompatibility of each board. Match the
		remedy	security compatibility/incompatibility of the
			boards.
E1	00	Content	MCU-IMC communication trouble
		Details	Communication establishment error/
			framing/parity/protocol error
		Cause	IMC PWB connector disconnection
			Motherboard connector pin breakage
			IMC PWB ROM defect, data failure
		Check	Check the connectors of the IMC PWB
		and	and MCU PWB.
		remedy	Check the grounding of the copier.
			Check the ROM of the IMC PWB.
	10	Content	IMC PWB trouble
		Details	Communication trouble between MCU and
			IMC PWB
		Cause	IMC PWB connector disconnection
			Motherboard connector pin breakage
			IMC PWB ROM defect, data failure
		Check	Check the connectors of the IMC PWB
		and	and MCU PWB.
		remedy	Check the grounding of the copier.
		Tomody	Check the ROM of the IMC PWB.
'	11	Content	IMC board ASIC error
	''	Details	ASIC abnormality on IMC board
			,
		Cause	IMC board abnormality
		Check	Replace the IMC PWB.
		and	
		remedy	1005-005
	12	Content	IMC board CODEC IC error
		Details	CODEC IC (JBIG chip) abnormality on
			IMC board
		Cause	IMC board abnormality
		Check	Replace the IMC PWB.
		and	
		remedy	
		Remarks	JBIG IC abnormality
1	13	Content	IMC board flash ROM error
	_	Details	Flash ROM abnormality on IMC board
		Cause	IMC board abnormality
			,
		Check and	Replace the IMC PWB.
			"When the program download is
		remedy	abnormally terminated, a error may occur.
1		Remarks	In this case, download the program again." Program ROM abnormality

Main Sub code code E1 14 Content IMC board expanded memory module (DIMM) error Details IMC extended compression memory module installation error IMC extended compression memory access error Cause IMC expanded memory module installation trouble IMC expanded memory module trouble IMC expanded memory contact trouble IMC expanded memory contact trouble IMC board abnormality Check and memory module. (Spec: Added to Slot Replace the expanded memory module. Replace the IMC PWB. Remarks Extend memory abnormality for compressed image store (DIMM modul Replace the IMC PWB. 15 Content IMC board Page Memory error/SRAM error Details IMC Page Memory Work SRAM abnormality Cause IMC board abnormality Check and remedy Remarks Print Buffer Page Memory or Work SRAM abnormality 16 Content IMC board compression image store memory error Details Access error of IMC standard compress memory Cause IMC board abnormality Replace the IMC PWB.	1.)
Main code code E1 14 Content IMC board expanded memory module (DIMM) error Details IMC extended compression memory module installation error IMC expanded memory module installation trouble IMC expanded memory module installation trouble IMC expanded memory module trouble IMC expanded memory contact trouble IMC board abnormality Check Check installation of the expanded memory module. (Spec: Added to Slot Replace the expanded memory module. Replace the IMC PWB. Remarks Extend memory abnormality for compressed image store (DIMM module) IMC board Page Memory error/SRAM error Details IMC Page Memory Work SRAM abnormality Cause IMC board abnormality Check and remedy Remarks Print Buffer Page Memory or Work SR abnormality 16 Content IMC board compression image store memory error Details Access error of IMC standard compress memory Cause IMC board abnormality Check and Replace the IMC PWB.	1.)
Main code code E1 14 Content IMC board expanded memory module (DIMM) error Details IMC extended compression memory module installation error IMC extended compression memory access error Cause IMC expanded memory module installation trouble IMC expanded memory contact trouble IMC expanded memory contact trouble IMC board abnormality Check and memory module. (Spec: Added to Slot Replace the expanded memory module. Replace the IMC PWB. Remarks Extend memory abnormality for compressed image store (DIMM module) IMC board Page Memory error/SRAM error Details IMC Page Memory Work SRAM abnormality Cause IMC board abnormality Check and remedy Remarks Print Buffer Page Memory or Work SRAM abnormality 16 Content IMC board compression image store memory error Details Access error of IMC standard compress memory Cause IMC board abnormality Check and Replace the IMC PWB.	1.)
E1 14 Content IMC board expanded memory module (DIMM) error Details IMC extended compression memory module installation error IMC extended compression memory access error Cause IMC expanded memory module installation trouble IMC expanded memory contact trouble IMC expanded memory contact trouble IMC board abnormality Check and memory module. (Spec: Added to Slot Replace the expanded memory module Replace the IMC PWB. Remarks Extend memory abnormality for compressed image store (DIMM modul IMC board Page Memory error/SRAM abnormality Cause IMC board abnormality Cause IMC board abnormality Check and remedy Remarks Print Buffer Page Memory or Work SRA abnormality 16 Content IMC board compression image store memory error Details Access error of IMC standard compress memory Cause IMC board abnormality Check and Replace the IMC PWB.	1.)
Details IMC extended compression memory module installation error IMC extended compression memory access error	1.)
Details IMC extended compression memory module installation error IMC extended compression memory access error Cause IMC expanded memory module installation trouble IMC expanded memory module trouble IMC expanded memory contact trouble IMC board abnormality Check Check installation of the expanded memory module. (Spec: Added to Slot remedy Replace the expanded memory module Replace the IMC PWB. Remarks Extend memory abnormality for compressed image store (DIMM module Replace the IMC PWB. IMC board Page Memory error/SRAM error Details IMC Page Memory Work SRAM abnormality Cause IMC board abnormality Check and remedy Remarks Print Buffer Page Memory or Work SR. abnormality 16 Content IMC board compression image store memory error Details Access error of IMC standard compress memory Cause IMC board abnormality Check and Replace the IMC PWB.	1.)
module installation error IMC extended compression memory access error Cause IMC expanded memory module installation trouble IMC expanded memory module trouble IMC expanded memory contact trouble IMC board abnormality Check Check installation of the expanded and memory module. (Spec: Added to Slot remedy Replace the expanded memory module Replace the IMC PWB. Remarks Extend memory abnormality for compressed image store (DIMM module 15 Content IMC board Page Memory error/SRAM error Details IMC Page Memory Work SRAM abnormality Cause IMC board abnormality Check and remedy Remarks Print Buffer Page Memory or Work SR abnormality 16 Content IMC board compression image store memory error Details Access error of IMC standard compress memory Cause IMC board abnormality Check and Replace the IMC PWB.	1.)
IMC extended compression memory access error Cause IMC expanded memory module installation trouble IMC expanded memory module trouble IMC expanded memory contact trouble IMC board abnormality Check Check installation of the expanded memory module. (Spec: Added to Slot remedy Replace the expanded memory module Replace the IMC PWB. Remarks Extend memory abnormality for compressed image store (DIMM modul IMC board Page Memory error/SRAM error Details IMC Page Memory Work SRAM abnormality Cause IMC board abnormality Check and remedy Remarks Print Buffer Page Memory or Work SRAM abnormality 16 Content IMC board compression image store memory error Details Access error of IMC standard compress memory Cause IMC board abnormality Check and Replace the IMC PWB.	1.)
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Cause IMC board abnormality Check and Replace the IMC PWB.	ion
Check and Replace the IMC PWB.	
and	
17 Content IMC board smoothing IC error	
Details IMC smoothing IC abnormality	
Cause IMC board abnormality	
Check Replace the IMC PWB.	
and	
remedy	
80 Content IMC PWB communication trouble	
(protocol)	
Details Communication trouble between MCU	ınd
IMC PWB (Protocol error)	
Cause IMC PWB connector disconnection	
Motherboard connector pin breakage	
IMC PWB ROM defect, data failure	
Check Check the connectors of the IMC PWB	
and and MCU PWB.	
remedy Check the grounding of the copier. Check the ROM of the IMC PWB.	
81 Content IMC PWB communication trouble (Pari	(V)
Details Communication trouble between MCU	
printer IMC (Parity error)	ıı IU
Cause IMC PWB connector disconnection	l
Motherboard connector pin breakage	
IMC PWB ROM defect, data failure	
Check Check the connectors of the IMC PWB	
and and MCU PWB.	
remedy Check the grounding of the copier.	
Check the ROM of the IMC PWB.	

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Main code	Sub		Details of trouble
E1	82	Content	IMC PWB communication trouble (Overrun)
		Details	Communication trouble between MCU and IMC PWB (Overrun error)
		Cause	IMC PWB connector disconnection Motherboard connector pin breakage IMC PWB ROM defect, data failure
		Check and remedy	Check the connectors of the IMC PWB and MCU PWB. Check the grounding of the copier.
	84	Content	Check the ROM of the IMC PWB. IMC PWB communication trouble
		Details	(Framing) Communication trouble between MCU and IMC PWB (Framing error)
		Cause	IMC PWB connector disconnection Motherboard connector pin breakage IMC PWB ROM defect, data failure
		Check and remedy	Check the connectors of the IMC PWB and MCU PWB. Check the grounding of the copier.
	00	Content	Check the ROM of the IMC PWB.
	88		IMC PWB communication trouble (Timeout)
		Details	Communication trouble between MCU and IMC PWB (Time-out error)
		Cause	IMC PWB connector disconnection Motherboard connector pin breakage IMC PWB ROM defect, data failure
		Check	Check the connectors of the IMC PWB and MCU PWB.
		remedy	Check the grounding of the copier. Check the ROM of the IMC PWB.
E7	02	Content Details	BD signal from LSU is not detected in a
		Cause	constant cycle. (Kept OFF or ON) LSU connector or LSU inside harness trouble or disconnection Polygon motor rotation abnormality Laser does not illuminate. MCU PWB failure
		Check and remedy	Check for disconnection of the LSU connector. Check the LSU operation with SIM 61-1. Check that the polygon motor rotates normally. Check laser LED lighting. LSU replacement Replace the MCU PWB.
	10	Content Details	Shading trouble (black correction) CCD black reference plate scan level
		Cause	abnormality when the copy lamp turns off. Flat cable installation failure to CCD unit CCD unit error
		Check and	Check flat cable installation to the CCD unit.
		remedy	Check CCD unit.

Trouble			
СО			Details of trouble
Main	Sub		Bottaile of trouble
code E7	code 11	Contont	Chading trouble (white comti)
E/	11	Content Details	Shading trouble (white correction) Improper CCD white reference plate
		Details	reading level for copy lamp lighting
		Cause	Flat cable installation failure to CCD unit
		Oddoo	"Dirt on the mirror, lens, and reference
			white plate"
			Copy lamp operation error
			CCD unit abnormality
			MCU PWB abnormality (Occurred in the SPF scan position.)
		Check	"Clean the mirror, the lens, and the
		and	reference white plate."
		remedy	Check the copy lamp light quantity and its
			operation. (SIM 5-3)
			Check CCD unit. Check MCU PWB.
	12	Content	Shading trouble
	12	Details	White correction is not completed in the
		Dotallo	specified number of times.
		Cause	Flat cable installation failure to CCD unit
			"Dirt on the mirror, lens, and reference
			white plate"
			Copy lamp lighting trouble CCD unit abnormality
			MCU PWB abnormality
		Check	"Clean the mirror, the lens, and the
		and	reference white plate."
		remedy	Check the copy lamp light quantity and its
		operation. (SIM 5-3)	
			Check CCD unit. Check MCU PWB.
F1	00	Content	Finisher communication trouble
	00	Details	Communication line test error occurs when
			power is turned on or after the exit of a
			simulation mode.
		•	Error in Finisher communication
		Cause	Connection trouble or disconnection of the connector and harness between the body
			and the finisher.
			Finisher control PWB trouble
			Control PWB failure
		a : .	Malfunction by noises
		Check and	Turn off/of the power to cancel the trouble. Check connector/harness of
		remedy	communication line
		, ,	Replace the finisher control PWB.
	01	Content	Side guide plated home position error
		Details	The side guide plate cannot return to the
		•	home position.
		Cause	Side guide plate drive motor abnormality Side guide plate home position sensor
			abnormality
			Finisher PWB abnormality
		Check	Use SIM3-3-1 to check the side guide
		and	plate motor operation.
	00	remedy	Office the section to a little
	06	Content Details	Offset motor trouble When the offset motor of the finisher is
		Details	driven it does not reach the specified
			position.
		Cause	Offset motor abnormality
			Offset motor origin sensor abnormality
		Ohaal	Finisher PWB abnormality
		Check and	Use SIM 3-3-6 to check the offset motor operation.
		remedy	oporation.
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Main	Sub		Details of trouble
code	code		
F1	08	Content	Staple motor error
гі	00		·
		Details	The staple motor cannot return to the home position.
		Cause	Staple motor abnormality Staple motor home position sensor abnormality Staple unit abnormality Finisher PWB abnormality
		Check and remedy	Use SIM 3-3-7 to check the staple motor operation.
	11	Content	Rear edge plate home position error
		Details	The rear edge plate cannot return to the home position.
		Cause	Rear edge plate drive motor abnormality Side guide plate home position sensor abnormality Finisher PWB abnormality
		Check and remedy	Use SIM 3-3-2 to check the rear edge plate motor operation.
	15	Content	Finisher lift-up motor trouble
		Details	The finisher lift-up motor does not reach the specified position.
		Cause	Lift-up motor abnormality Lift-up motor upper limit sensor abnormality Finisher PWB abnormality
		Check and remedy	Use SIM 3-3-5 to check the lift-up motor operation.
F2	02	Content	Toner supply failure
		Details	The value judged from the actual toner supply hysteresis differs greatly from the toner sensor value.
		Cause	Developing unit trouble Toner supply abnormality caused by installation of unpacked toner cartridge
		Check and remedy	Replace the developing unit Use SIM 25-1 to perform DV stirring.

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CO			Details of trouble
Main	Sub		Botano or trouble
code	code		
F2	04	Content	Identification error
			Model error
			Type error
			Destination error
			Data abnormality
			Misc error
		Details	Identification error
			When the CRUM trademark differs.
			When the CRUM company code differs.
			Model error
			When the boot program model code does
			not match with the CRUM model
			information.
			Type error
			When the CRUM type is other than
			[Genuine/Conversion/Production rotation].
			Destination error
			The destination of the body differs from
			that of the CRUM. Data abnormality
			The initial check information includes an
			erroneous value.
			When the max. toner supply time is 00:
			When the print hard stop is 00:
		Cause	CRUM chip failure
			Erroneous developing unit
		Check	Replace the CRUM chip.
		and	Replace the developing unit
		remedy	
F5	02	Content	Copy lamp lighting abnormality
		Details	The copy lamp does not light up.
		Cause	Copy lamp error
			Copy lamp harness abnormality
			CCD PWB harness abnormality
		Check	Check the copy lamp (SIM 5-3)
		and .	When the lamp lights:
		remedy	Check the harnesses and connectors
			between the CCD unit and the MCU PWB.
			When the lamp does not light: Check the harness and connector
			between the copy lamp and the MCU
			PWB.
			Replace the copy lamp unit.
			Replace the MCU PWB.
		Remarks	Copy lamp disconnection
			Cable is not attached.
F6	00	Content	MCU-FAX communication trouble
		Details	Communication establishment error/
			framing/parity/protocol error
		Cause	FAX control PWB connector disconnection
			Defective harness between FAX control
			PWB and MCU PWB
			Motherboard connector pin breakage FAX control PWB ROM error/Data error
		Chast	
		Check and	Check connector/harness of FAX control PWB and MCU PWB.
		and remedy	Check the grounding of the copier.
		romouy	Check FAX control PWB ROM.
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Main	Sub		Details of trouble
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F6	10	Content Details	FAX control PWB trouble Communication trouble between MCU and FAX control PWB
		Cause	FAX control PWB connector disconnection Defective harness between FAX control
			PWB and MCU PWB Motherboard connector pin breakage
			FAX control PWB ROM error/Data error IC on FAX PWB causes abnormality
		Check and	Check connector/harness of FAX control PWB and MCU PWB.
		remedy	Check the grounding of the copier. Check FAX control PWB ROM. Replace the FAX PWB.
	80	Content	FAX control PWB communication trouble (Protocol)
		Details	Communication trouble between MCU and FAX control PWB (Protocol error)
		Cause	FAX control PWB connector disconnection Defective harness between FAX control PWB and MCU PWB
			Motherboard connector pin breakage FAX control PWB ROM error/Data error
		Check	Check connector/harness of FAX control
		and remedy	PWB and MCU PWB. Check the grounding of the copier.
	0.4	0	Check FAX control PWB ROM.
	81	Content	FAX control PWB communication trouble (Parity)
		Details	Communication trouble between MCU and
		Cause	FAX control PWB (Parity error) FAX control PWB connector disconnection
		Guass	Defective harness between FAX control PWB and MCU PWB
			Motherboard connector pin breakage FAX control PWB ROM error/Data error
		Check and	Check connector/harness of FAX control PWB and MCU PWB.
		remedy	Check the grounding of the copier.
	82	Content	Check FAX control PWB ROM. FAX control PWB communication trouble
	-		(Over-run)
		Details	Communication trouble between MCU and FAX control PWB (Overrun error)
		Cause	FAX control PWB connector disconnection
			Defective harness between FAX control PWB and MCU PWB
			Motherboard connector pin breakage
		Check	FAX control PWB ROM error/Data error Check connector/harness of FAX control
		and	PWB and MCU PWB.
		remedy	Check the grounding of the copier. Check FAX control PWB ROM.
	84	Content	FAX control PWB communication trouble (Framing)
		Details	Communication trouble between MCU and FAX control PWB (Framing error)
		Cause	FAX control PWB connector disconnection Defective harness between FAX control
			PWB and MCU PWB Motherboard connector pin breakage FAX control PWB ROM error/Data error
		Check	Check connector/harness of FAX control
		and remedy	PWB and MCU PWB. Check the grounding of the copier.
		Tomody	Check FAX control PWB ROM.

Trou	ıble		
co	de		Details of trouble
Main	Sub		Details of trouble
code	code		
F6	88	Content	FAX control PWB communication trouble (Timeout)
		Details	Communication trouble between MCU and FAX control PWB (Timeout error)
		Cause	FAX control PWB connector disconnection Defective harness between FAX control PWB and MCU PWB Motherboard connector pin breakage FAX control PWB ROM error/Data error
		Check and	Check connector/harness of FAX control PWB and MCU PWB.
		remedy	Check the grounding of the copier. Check FAX control PWB ROM.
	99	Content	FAX control PWB destination error
		Details	The machine destination setup does not coincide with the FAX board destination setup.
		Cause	The machine destination setup (Sim 26-6) does not coincide with the FAX board setup
		Check	Check the variety of FAX LIU PWB.
		and	Check the machine destination setup (Sim
		remedy	22-6) and FAX country code (Soft SW table).
F9	00	Content	MCU-PRT communication trouble
		Details	Communication establishment error/
		0	framing/parity/protocol error
		Cause	Printer PWB connector disconnection Harness trouble between the printer PWB
			and the MCU PWB
			Motherboard connector pin breakage
			Printer PWB ROM trouble/Data
			disturbance
		Check	Check the connectors and harness of the
		and remedy	printer PWB and MCU PWB. Check the grounding of the copier.
		Terriedy	Check ROM on printer PWB.
-	10	Content	Printer PWB trouble
		Details	Communication trouble between MCU and printer PWB
		Cause	Printer PWB connector disconnection
			Harness trouble between the printer PWB
			and the MCU PWB
			Motherboard connector pin breakage Printer PWB ROM trouble/Data
			disturbance
		Check	Check the connectors and harness of the
		and	printer PWB and MCU PWB.
		remedy	Check the grounding of the copier. Check ROM on printer PWB.
	80	Content	Printer PWB communication trouble (Protocol)
		Details	Communication trouble between MCU and printer PWB (Protocol error)
		Cause	Printer PWB connector disconnection
			Harness trouble between the printer PWB
			and the MCU PWB
			Motherboard connector pin breakage Printer PWB ROM trouble/Data
			disturbance
		Check	Check the connectors and harness of the
		and	printer PWB and MCU PWB.
		remedy	Check the grounding of the copier.
			Check ROM on printer PWB.

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	de		Details of trouble
Main code	Sub code		Details of trouble
F9	81	Content	Printer PWB communication trouble (Parity)
		Details	Communication trouble between MCU and printer PWB (Parity error)
		Cause	Printer PWB connector disconnection
			Harness trouble between the printer PWB and the MCU PWB
			Motherboard connector pin breakage Printer PWB ROM trouble/Data disturbance
		Check	Check the connectors and harness of the
		and remedy	printer PWB and MCU PWB. Check the grounding of the copier.
		Terriedy	Check ROM on printer PWB.
	82	Content	Printer PWB communication trouble (Overrun)
		Details	Communication trouble between MCU and printer PWB (Overrun error)
		Cause	Printer PWB connector disconnection Harness trouble between the printer PWB and the MCU PWB
			Motherboard connector pin breakage Printer PWB ROM trouble/Data
		Check	disturbance Check the connectors and harness of the
		and	printer PWB and MCU PWB.
		remedy	Check the grounding of the copier. Check ROM on printer PWB.
	84	Content	Printer PWB communication trouble (Framing)
		Details	Communication trouble between MCU and printer PWB (Framing error)
		Cause	Printer PWB connector disconnection Harness trouble between the printer PWB and the MCU PWB
			Motherboard connector pin breakage Printer PWB ROM trouble/Data
		Check	disturbance Check the connectors and harness of the
		and	printer PWB and MCU PWB.
		remedy	Check the grounding of the copier. Check ROM on printer PWB.
	88	Content	Printer PWB communication trouble (Timeout)
		Details	Communication trouble between MCU and printer PWB (Timeout error)
		Cause	Printer PWB connector disconnection Harness trouble between the printer PWB and the MCU PWB
			Motherboard connector pin breakage Printer PWB ROM trouble/Data disturbance
		Check	Check the connectors and harness of the
		and	printer PWB and MCU PWB.
		remedy	Check the grounding of the copier. Check ROM on printer PWB.

Trouble code								
Main	Sub		Details of trouble					
code	code	Content Machine-PCI hoard language error						
F9	99	Content	Machine-PCL board language error					
		Details	The machine language setup does not coincide with the PCL board language setup.					
		Cause	PCL board connection error SIM setup error					
		Check and remedy	Check the firmware of the PCL board and the combination of the panel screen data, and download the correct version, if					
			necessary. Check the machine language information. (Machine language setup: SIM 26-22)					
H2	00	Content	Main heater lamp thermistor open hard detection					
		Details	Main heater lamp thermistor open detection Fusing unit not installed					
		Cause	Thermistor defect Control PWB failure					
			Fusing section connector contact failure Fusing unit not installed					
		Check	Check the harness and the connector of					
		and remedy	the thermistor and the MCU. Clear the display of self-diagnostics with SIM 14.					
		Remarks	Thermistor open					
	01	Content	Sub heater lamp thermistor open hard detection					
		Details	Sub heater lamp thermistor open detection Fusing unit not installed					
		Cause	Thermistor defect Control PWB failure Fusing section connector contact failure					
		Check	Fusing unit not installed					
		and	Check the harness and the connector of the thermistor and the MCU.					
		remedy	Clear the display of self-diagnostics with SIM 14.					
		Remarks	Thermistor open					
H3	00	Content	Main heater lamp abnormally high temperature hard detection trouble					
		Details	The fusing main heater thermistor causes abnormally high temperature.					
		Cause	Main heater lamp thermistor defect Control PWB failure Fusing section connector contact failure					
		Check and remedy	Check the main heater lamp blinking with SIM 5-2-1. When the lamp blinks normally: Check the thermistor and the harness. Check the MCU PWB thermistor input circuit. If lamp lights and stays lit: Check the power PWB and the MCU PWB lamp control circuit. Clear the display of self-diagnostics with SIM 14.					

Trouble								
	de	Details of trouble						
Main code	Sub code							
H3 01 Content			Sub heater lamp abnormally high temperature hard detection trouble					
		Details	The fusing sub heater thermistor causes					
		0	abnormally high temperature.					
		Cause	Sub heater lamp Thermistor defect Control PWB failure					
		01 1	Fusing section connector contact failure					
		Check and	Check the sub heater lamp blinking with SIM 5-2-2.					
		remedy	When the lamp blinks normally: Check the thermistor and the harness.					
			Check the MCU PWB thermistor input circuit.					
			If lamp lights and stays lit:					
			Check the power PWB and the MCU PWB lamp control circuit.					
			Clear the display of self-diagnostics with SIM 14.					
НЗ	10	Content	Main heater lamp abnormally high temperature soft detection trouble					
		Details	A/D value the fusing main heater lamp thermistor causes abnormally high temperature (over 230°C).					
		Cause	Main heater lamp thermistor defect Control PWB failure					
		Check	Check the main heater lamp blinking with					
		and remedy	SIM 5-2-1. When the lamp blinks normally: Check the thermistor and the harness. Check the MCU PWB thermistor input					
			circuit. If lamp lights and stays lit: Check the power PWB and the MCU PWB lamp control circuit.					
			Clear the display of self-diagnostics with SIM 14.					
	11	Content	Sub heater lamp abnormally high temperature soft detection trouble					
		Details	A/D value the fusing sub heater lamp thermistor causes abnormally high temperature (over 230°C).					
		Cause	Sub heater lamp thermistor defect Control PWB failure					
		Check	Fusing section connector contact failure					
		and	Check the sub heater lamp blinking with SIM 5-2-2.					
		remedy	When the lamp blinks normally: Check the thermistor and the harness.					
			Check the MCU PWB thermistor input					
			circuit. If lamp lights and stays lit:					
			Check the power PWB and the MCU PWB lamp control circuit.					
			Clear the display of self-diagnostics with SIM 14.					

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Tro								
CO		Details of trouble						
Main	Sub							
code	code							
H4	00	Content	Main heater lamp abnormally low temperature detection					
		Details	The setup temperature (about 90°C) is not reached within the specified time (about 17sec) from turning on the power ON SW. (When the temperature of main heater lamp thermistor falls below 140°C in the standby mode or printing.) Whether temperature of main heater lamp thermistor falls below 50°C in the pre-heat mode.					
		Cause	Main heater lamp thermistor defect Main heater lamp failure Main thermostat failure Control PWB failure					
		Check and	Check the heater lamp blinking with SIM 5-2.					
		remedy	When the lamp blinks normally: Check the thermistor and the harness. Check the MCU PWB thermistor input circuit. When the lamp does not light: Check for disconnection of the heater lamp and thermostat. Check the interlock switch. Check the power PWB and the MCU PWB lamp control circuit. Clear the display of self-diagnostics with SIM 14.					
	01	Content	Sub heater lamp abnormally low temperature detection					
		Details	The setup temperature (about 90°C) is not reached within the specified time (about 17sec) from turning on the power ON SW. (When the temperature of sub heater thermistor falls below 140°C in the standby mode or printing.) Whether temperature of sub heater lamp thermistor falls below 50°C in the pre-heat mode.					
		Cause	Sub heater lamp thermistor defect Sub heater lamp failure Sub thermostat failure Control PWB failure					
		Check and remedy	Check the sub heater lamp blinking with SIM 5-2-2. When the lamp blinks normally: Check the thermistor and the harness. Check the MCU PWB thermistor input circuit. When the lamp does not light: Check for disconnection of the heater lamp and thermostat. Check the interlock switch. Check the power PWB and the MCU PWB lamp control circuit. Clear the display of self-diagnostics with SIM 14.					

Trouble code					
Main code	Sub code		Details of trouble		
H4	20	Content	Main heater lamp abnormally low		
		Details	temperature detection The setup temperature (about –25°C: Sim		
		20140	43-1-1) is not reached within the specified		
			time (about 32sec) from turning on the power ON SW.		
			(When the temperature falls below 140°C		
		Cause	in the standby mode.) Main heater thermistor defect		
			Main heater lamp failure Main thermostat failure		
			Control PWB failure		
		Check and	Check the main heater lamp blinking with SIM 5-2.		
		remedy	When the lamp blinks normally:		
			Check the thermistor and the harness. Check the MCU PWB thermistor input		
			circuit.		
			When the lamp does not light: Check for disconnection of the heater		
			lamp and thermostat. Check the interlock switch.		
			Check the power PWB and the MCU PWB		
			lamp control circuit. Clear the display of self-diagnostics with		
	0.4		SIM 14.		
	21	Content	Sub heater lamp abnormally low temperature detection		
		Details	The setup temperature (about –25°C: Sim 43-1-1) is not reached within the specified		
			time (about 32sec) from turning on the		
			power ON SW. (When the temperature falls below 140°C		
		Cause	in the standby mode.) Sub heater thermistor defect		
		Cause	Sub heater lamp failure		
			Sub thermostat failure Control PWB failure		
	:	Check	Check the sub heater lamp blinking with		
		and remedy	SIM 5-2-2. When the lamp blinks normally:		
		-	Check the thermistor and the harness. Check the MCU PWB thermistor input		
			circuit.		
			When the lamp does not light: Check for disconnection of the heater		
			lamp and thermostat.		
			Check the interlock switch. Check the power PWB and the MCU PWB		
			lamp control circuit. Clear the display of self-diagnostics with		
			SIM 14.		
H5	01	Content Details	10 continuous POD1, POD2 or PPD2 JAM POD1, POD2, PPD2 JAM was detected		
			10 continuous times from turning on the		
		Cause	power ON. The fusing JAM is not completely		
			removed. (Jam paper remains.) POD1, POD2, PPD2 sensor breakdown or		
			harness connection trouble		
		Check	Fusing unit installation failure Check for jam paper in the fusing section.		
		and	(paper winding, etc.)		
		remedy	Check fusing unit installation. Check the POD1, POD2 or PPD2 sensor.		
			Clear the trouble with SIM 14.		

Trouble code		B				
Main code	Sub		Details of trouble			
L1	00	Content	Scanner feed trouble			
		Details	Scanner feed is not completed within the specified time.			
		Cause	Mirror unit defect			
			Scanner wire disconnection Origin detection sensor error			
			Mirror motor harness abnormality			
		Check and	Check the scanning operation with SIM 1-1.			
		remedy	Mirror base feed trouble Check for disconnection of the scanner wire.			
			Check the harness and connector between the mirror motor and the MCU PWB.			
			Replace the mirror unit. Replace the MCU PWB.			
			When the mirror feeds: Check the mirror home position sensor			
	00		with SiM 1-2.			
L3	00	Content Details	Scanner return trouble Scanner return is not completed within the			
		Details	specified time.			
			"When OC copying with the mirror at the			
			home position, the mirror is not in the			
		Cause	home position. " Mirror unit defect			
		Cause	The scanner wire is disconnected.			
			Origin detection sensor error			
			Mirror motor harness abnormality			
		Check and	Check the scanning operation with SIM 1-1.			
		remedy	Mirror base return trouble			
		-	Check for disconnection of the scanner wire.			
			Check the harness and connector			
			between the mirror motor and the MCU PWB.			
			Replace the mirror unit. Replace the MCU PWB.			
			When the mirror feeds:			
			Check the mirror home position sensor with SiM 1-2.			
L4	01	Content	Main motor trouble			
		Details	The main motor does not rotate.			
			The motor lock signal is detected for 1sec or more after the main motor rotates.			
			The motor lock signal is detected for 1sec			
			during rotation of the main motor.			
		Cause	Main motor defect			
			Main motor connection, harness trouble or disconnection			
			MCU PWB failure			
		Check	Check the main motor operation with SIM			
		and remedy	25-1. Check connection of the main motor			
		remedy	harness and connector.			
			Replace the main motor.			
			Replace the MCU PWB.			

Trou						
Main code	Sub code		Details of trouble			
L4	11	Content	Shifter motor trouble			
		Details	The shifter home position detection signal is not detected when the shifter is operating.			
		Cause	Shifter motor trouble or harness connection trouble and disconnection Shifter home position sensor trouble			
		Check and remedy	Check the shifter motor operation with SIM 3-11. Check connection of the shifter motor			
		Tomody	harness/connector. Replace the shifter motor. Replace the MCU PWB.			
L6	10	Content				
		Details	Polygon motor lock trouble The polygon motor does not rotate. The motor lock signal is detected for 6sec or more after the polygon motor rotates. The motor lock signal is detected for 1sec during rotation of the polygon motor.			
		Oddoo	Polygon motor unit failure Polygon motor connection, harness trouble or disconnection MCU PWB failure			
		Check and remedy	Check the polygon motor operation with SIM 61-1. Check connector/harness of polygon motor Replace the polygon motor.			
1.0	10	Contont	Replace the MCU PWB.			
L8	10	Content Details	Power abnormality detection trouble The power status monitoring signal keeps power OFF state after passing the specified time (2sec).			
		Cause	Circuit around the power status monitoring signal failure.			
		Check and remedy	Check whether power status monitoring signal on MCU PWB is OPEN or not.			
U1	01	Content Details	Replace MCU PWB. FAX battery error The SRAM backup battery voltage on FAX PWB falls.			
		Cause	The SRAM backup battery voltage on FAX PWB falls.			
		Check and remedy	Check voltage of the SRAM back up battery. Replace the battery.			
	02	Content	PANEL LOW battery error			
		Details	The voltage of the panel clock function battery falls.			
		Cause	The voltage of the panel clock function battery falls.			
		Check and	Check voltage of panel clock function battery.			
U2	04	remedy Content	Replace the battery. EEPROM communication error			
"	5 4	Details	MCU PWB EEPROM access circuit failure			
		Cause	EEPROM defective ICU PWB EEPROM access circuit failure			
		Check	Check that the EEPROM is properly set.			
		and	Clear trouble with SIM 16.			
		remedy	Replace the MCU PWB.			
		Remarks	EEPROM abnormality			

Trouble						
	de	Details of trouble				
Main Sub code code						
U2	code 20	Content	Machine speed code data error			
02	20	Details	The machine (Boot) speed information is			
		Details	not identical to the model code speed			
			information.			
		Cause	EEPROM defective			
			SIM operation error			
		Check	Check that the machine set with SIM 26-			
		and	57 is identical to the model information.			
		remedy	When the best manager and and all all			
		Remarks	When the boot program speed code does not match with the body model			
			information.			
	40	Content	CRUM chip communication error			
		Details	Error in MCU-CRUM chip communication			
		Cause	CRUM chip failure			
			Developing unit contact trouble			
			MCU PWB failure			
		Check	Replace the CRUM chip.			
		and	Check installation of the developing unit. Clear the trouble with SIM 16.			
		remedy	Replace the MCU PWB.			
		Remarks	CRUM communication error			
U7	00	Content	RIC communication trouble			
		Details	Error in communication with RIC			
			Error in communication test after turning			
			on the power or canceling SIM.			
		Cause	Connector harness contact trouble or			
			disconnection			
			RIC control PWB trouble MCU PWB failure			
			Malfunction by noises Check the communication cable,			
		Check				
		and	connectors from the RIC box to the main			
		remedy	body.			
U9	00	Content	MCU-OPE communication trouble			
		Details	Communication establishment error/			
		Cause	framing/parity/protocol error Operation control PWB connector			
		Cause	disconnection			
			Operation control PWB MCU PWB			
	harness failure		·			
		Check	Check the connectors and harness of the			
		and	operation control PWB and MCU PWB.			
		remedy	Check the grounding of the copier. Check ROM on the operation control			
			PWB.			
	80	Content	Operation control PWB communication			
			trouble (Protocol)			
		Details	Communication trouble between MCU and			
			the operation control PWB (Protocol error)			
		Cause	Operation control PWB connector			
			disconnection			
			Operation control PWB MCU PWB harness failure			
		Check	Check the connectors and harness of the			
		and	operation control PWB and MCU PWB.			
		remedy	Check the grounding of the copier.			

Tuc	uble							
	uble de							
Main	Sub	Details of trouble						
code	code							
U9	81	Content	Operation control PWB communication trouble (Parity)					
		Details	Communication trouble between MCU and the operation control PWB (Parity error)					
		Cause	Operation control PWB connector disconnection Operation control PWB MCU PWB harness failure					
		Check	Check the connectors and harness of the operation control PWB and MCU PWB.					
		remedy	Check the grounding of the copier.					
	82	Content	Operation control PWB communication trouble (Overrun)					
		Details	Communication trouble between MCU and the operation control PWB (Overrun error)					
		Cause	Operation control PWB connector disconnection Operation control PWB MCU PWB harness failure					
		Check and remedy	Check the connectors and harness of the operation control PWB and MCU PWB. Check the grounding of the copier.					
U9	84	Content	Operation control PWB communication trouble (Framing)					
		Details	Communication trouble between MCU and the operation control PWB (Framing error)					
		Cause	Operation control PWB connector disconnection Operation control PWB MCU PWB					
		Check	harness failure					
		and remedy	Check the connectors and harness of the operation control PWB and MCU PWB. Check the grounding of the copier.					
	88	Content	Operation control PWB communication trouble (Time-out)					
		Details	Communication trouble between MCU and the operation PWB (Time-out error)					
		Cause	Operation control PWB connector disconnection					
		Observe	Operation control PWB MCU PWB harness failure					
		Check and remedy	Check the connectors and harness of the operation control PWB and MCU PWB. Check the grounding of the copier.					
	99	Content	Operation panel destination error					
		Details	An error occurred in checking the destination of the operation panel and the main body.					
		Cause	Erroneous connection the operation panel unit					
		Chools	SIM setup error Check the destination information of the					
		Check and	operation panel unit and the MCU. (Use					
		remedy	SIM 26-6 for the destination of the body.)					
	1							

Tro	uble							
_	de							
Main	Sub	Details of trouble						
code	code							
EE	FI	Content Developer adjustment trouble (Over-toned						
		Conton	abnormality)					
		Details	An abnormality occurred in execution of					
			automatic developer adjustment.					
			Sample data was detected over-toner.					
		Cause	Toner concentration sensor abnormality					
			Toner concentration trouble					
			Developing unit trouble					
			MCU PWB failure					
		Check	Use SIM 25-2 to perform the auto					
		and	developer adjustment.					
		remedy						
	EU	Content	Developer adjustment trouble (Under-					
			toned abnormality)					
		Details	An abnormality occurred in execution of					
			automatic developer adjustment.					
			Sample data was detected under-toner.					
		Cause	Toner concentration sensor abnormality					
			Toner concentration trouble					
			Developing unit trouble					
			MCU PWB failure					
		Check	Use SIM 25-2 to perform the auto					
	and		developer adjustment.					
		remedy						
PF	00	Content	RIC communication error					
		Details	The copy inhibit command from RIC is					
		_	received.					
		Cause	Judged by the host.					
		Check	Inform to the host.					
		and						
		remedy						

[10] DISASSEMBLY, ASSEMBLY AND MAINTENANCE

1. Maintenance table

X: Check (Check, clean, replace or adjust according to necessity.)

O: Cleaning ▲: Replace ☆: Lubricate

Unit	Parts	75k	150k	225k	300k	375k	450k	Note
Process unit	Drum	A	A	A	A	A	A	
	Cleaning blade		A	A	A	A	A	
	Seal F/R	X	×	×	×	×	×	
	Drum frame unit	X	×	A	×	×	A	
	MC unit	•	•	•	•	•	•	MC unit supply only (Individual parts in MC unit can not be supplied.)
	Separation pawl unit	×	•	×	•	×	•	Separation pawl unit supply only (Individual parts in separation pawl unit can not be supplied.)
Star ring	Star ring	X	×	×	×	×	×	
DV unit	Developer	A	A	A	A	A	A	
	DV seal	×	A	×	A	×	A	
	DV side seal N	X	A	×	A	×	A	
	DV side seal N2	X	A	×	A	×	A	
	DV side mylar	X	A	×	A	×	A	
	DV moquette	X	×	×	×	×	×	
	Toner sensor	X	×	×	×	×	×	
Fusing unit	Upper heat roller	О	A	0	A	0	A	
	Lower heat roller	О	0	0	A	0	0	
	Upper separation pawl	О	A	0	A	0	A	
	Upper cleaning Pat	X	A	×	A	×	A	
	Lower separation pawl	О	0	0	A	0	0	
	Thermistor	О	0	0	0	0	0	
	Upper roller gear	☆	A	☆	A	☆	A	
	Upper roller bush	X	A	×	A	×	A	
	Lower heat roller bearing	X	×	×	A	×	×	
	Paper guide	О	0	0	0	0	0	
Paper feed	Pickup roller (Multi bypass tray)	X	×	×	×	×	×	Changing criteria for parts: 100k
	Paper feeding sheet (Multi bypass tray)	X	×	×	×	×	×	Changing criteria for parts: 100k
	Pickup roller (500 sheets tray)	X	×	×	×	×	×	Changing criteria for parts: 100k
	Paper feeding sheet (500 sheets tray)	X	×	×	×	×	×	Changing criteria for parts: 100k
	Pickup roller and feed roller (SPF/RSPF)	×	×	×	×	×	×	
	Paper feeding sheet (SPF/RSPF)	X	×	×	×	×	X	Changing criteria for parts: 100k
Transport	Transport roller unit	О	A	О	A	0	A	Transport unit supply only
unit	Gear	×	_	×	_	×	_	(Only transport gear is supplied as the service parts.)
Ozone filter	Ozone filter	A	A	A	A	A	A	
Others	Paper feed rollers	О	0	0	0	0	О	
	Gears	☆	☆	☆	☆	☆	☆	

2. Counter clear

Item	SIM	Remarks
Maintenance cycle setting	SIM 21-1	
Jam/trouble counter clear	SIM 24-1	
Paper feed counter clear	SIM 24-2	At maintenance
DF/Scan/Stapler counter clear	SIM 24-3	At maintenance
Maintenance counter clear	SIM 24-4	At drum replacement
Developing counter clear	SIM 24-5	At developer replacement
Copy counter clear	SIM 24-6	
Drum counter clear	SIM 24-7	At drum replacement
Printer, other counter clear	SIM 24-9	
FAX counter clear	SIM 24-10	
Scanner mode counter clear	SIM 24-15	

3. List of disassembly and assembly

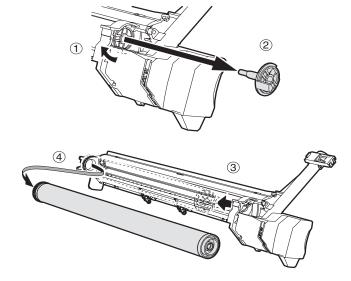
Unit		Parts					
A. Process unit	(1)	Drum					
	(2)	Drum section	a.	Main charger			
			b.	Cleaning blade			
			C.	Drum frame unit			
			d.	Moquette F/R			
			e.	Separation pawl			
B. Developing unit	(1)	Developer					
	(2)	DV seal/side se	al N	/side seal N2/side			
		mylar					

Unit			Part	<u> </u>
C. Fusing unit	(1)	Thermostat		
D. Optical section	(2)	Thermistor		
	(3)	Paper guide		
	(4)	Fusing Separat	ion F	Pawl (lower)
	(5)	Lower heat roller		
	(6)	Heater lamp		
	(7)	Fusing Separation Pawl (upper)		
	(8)	Upper heat roller		
	(1)	CCD unit		
	(2)	Lamp unit	a.	Lamp
			b.	PWB
			C.	Wire
			d.	Mirror motor
E. Paper feed section	(1)	Paper feed sole		
	(2)	Cassette sensor PWB		
	(3)	Manual P-in sensor/Manual empty sensor		
	(4)	Multi manual	a.	Paper feed roller/
		paper feed Upper 500 sheets tray paper feed Lower 500 sheets tray paper feed	۵.	pickup roller
			b.	Reverse sensor
			C.	Separation sheet
			d.	Clutch/solenoid
	(5)		a.	Paper feed roller/
	(6)			pickup roller
			b.	Separation sheet
			a.	Paper feed roller/
				pickup roller
			b.	Separation sheet
			c.	Lift up unit
			d.	Transport clutch
			e.	Paper feed clutch
			f.	Transport clutch
			g.	Solenoid
			h.	Sensor PWB
			I.	Dehumidification
				heater
F. Side door unit	(1)	Transport roller unit		
	(2)	Transport roller		
	(3)	DUP transport roller		
	(4)	DUP motor		
• • •		Exit roller		
G. 1st paper exit	(1)	Exit roller		
G. 1st paper exit unit	(1)	Exit roller Cooling fan		
unit	(2)	Cooling fan		
unit H. 2nd paper exit	(2)	Cooling fan Switch		
unit H. 2nd paper exit	(2) (1) (2)	Cooling fan Switch Sensor		
unit H. 2nd paper exit unit	(2) (1) (2) (3) (1)	Cooling fan Switch Sensor Roller		
unit H. 2nd paper exit unit I. Laser unit	(2) (1) (2) (3) (1)	Cooling fan Switch Sensor Roller LSU	3_	
unit H. 2nd paper exit unit I. Laser unit J. Power unit	(2) (1) (2) (3) (1) (1)	Cooling fan Switch Sensor Roller LSU Power source	3	
unit H. 2nd paper exit unit I. Laser unit J. Power unit	(2) (1) (2) (3) (1) (1) (1)	Cooling fan Switch Sensor Roller LSU Power source Option CN PWI	3	
unit H. 2nd paper exit unit I. Laser unit J. Power unit	(2) (1) (2) (3) (1) (1) (1) (2) (3) (4)	Cooling fan Switch Sensor Roller LSU Power source Option CN PWB		
unit H. 2nd paper exit unit I. Laser unit J. Power unit	(2) (1) (2) (3) (1) (1) (1) (1) (2) (3)	Cooling fan Switch Sensor Roller LSU Power source Option CN PWB MCU PWB	WB	VB
unit H. 2nd paper exit unit I. Laser unit J. Power unit	(2) (1) (2) (3) (1) (1) (1) (2) (3) (4)	Cooling fan Switch Sensor Roller LSU Power source Option CN PWB MCU PWB Motherboard PMB	WB	WB
unit H. 2nd paper exit unit I. Laser unit J. Power unit K. PWB	(2) (1) (2) (3) (1) (1) (1) (2) (3) (4)	Cooling fan Switch Sensor Roller LSU Power source Option CN PWB MCU PWB Motherboard PMB	WB ce PV	VB
unit H. 2nd paper exit unit I. Laser unit J. Power unit K. PWB	(2) (1) (2) (3) (1) (1) (1) (2) (3) (4) (5)	Cooling fan Switch Sensor Roller LSU Power source Option CN PWB MCU PWB Motherboard Posecond interface	WB ce PV	VB
unit H. 2nd paper exit unit I. Laser unit J. Power unit K. PWB	(2) (1) (2) (3) (1) (1) (1) (2) (3) (4) (5)	Cooling fan Switch Sensor Roller LSU Power source Option CN PWB MCU PWB MCU PWB Motherboard P Second interfac	WB ce PV	WB
unit H. 2nd paper exit unit I. Laser unit J. Power unit K. PWB	(2) (1) (2) (3) (1) (1) (1) (2) (3) (4) (5) (1)	Cooling fan Switch Sensor Roller LSU Power source Option CN PWB IMC PWB MCU PWB Motherboard Pt Second interfac	WB ce PV	WB
unit H. 2nd paper exit unit I. Laser unit J. Power unit K. PWB	(2) (1) (2) (3) (1) (1) (1) (2) (3) (4) (5) (1) (2) (3)	Cooling fan Switch Sensor Roller LSU Power source Option CN PWB MCU PWB MCU PWB Motherboard P Second interfac	WB ce PV otor or	VB
unit H. 2nd paper exit unit I. Laser unit J. Power unit K. PWB	(2) (1) (2) (3) (1) (1) (1) (2) (3) (4) (5) (1) (2) (3) (4) (4)	Cooling fan Switch Sensor Roller LSU Power source Option CN PWB IMC PWB MCU PWB Motherboard P Second interfac DUP reverse m Main drive motor Toner motor	WB ce PV otor or	VB
unit H. 2nd paper exit unit I. Laser unit J. Power unit K. PWB	(2) (1) (2) (3) (1) (1) (1) (2) (3) (4) (5) (2) (3) (4) (5)	Cooling fan Switch Sensor Roller LSU Power source Option CN PWB IMC PWB MCU PWB Motherboard P Second interfac DUP reverse m Main drive motor Toner motor Drive unit PS transport clu	WB ce PV otor or	VB
unit H. 2nd paper exit unit I. Laser unit J. Power unit K. PWB	(2) (1) (2) (3) (1) (1) (1) (2) (3) (4) (5) (3) (4) (5) (6)	Cooling fan Switch Sensor Roller LSU Power source Option CN PWB IMC PWB MCU PWB Motherboard P Second interfac DUP reverse m Main drive motor Toner motor Drive unit PS transport clu	WB ce PV otor or utch	VB
unit H. 2nd paper exit unit I. Laser unit J. Power unit K. PWB L. Ozone filter M. Drive section	(2) (1) (2) (3) (1) (1) (1) (2) (3) (4) (5) (3) (4) (5) (6) (7)	Cooling fan Switch Sensor Roller LSU Power source Option CN PWB IMC PWB MCU PWB Motherboard P Second interfac DUP reverse m Main drive motor Toner motor Drive unit PS transport clu Paper feed clut Lift up motor	WB otor otor utch	VB
unit H. 2nd paper exit unit I. Laser unit J. Power unit K. PWB L. Ozone filter M. Drive section	(2) (1) (2) (3) (1) (1) (1) (2) (3) (4) (5) (6) (7) (1)	Cooling fan Switch Sensor Roller LSU Power source Option CN PWB IMC PWB MCU PWB Motherboard P Second interfac DUP reverse m Main drive motor Toner motor Drive unit PS transport clu Paper feed clut Lift up motor Transport roller	WB otor otor utch	VB
unit H. 2nd paper exit unit I. Laser unit J. Power unit K. PWB L. Ozone filter M. Drive section N. Transport section O. Operation	(2) (1) (2) (3) (1) (1) (1) (2) (3) (4) (5) (6) (7) (1) (1) (2)	Cooling fan Switch Sensor Roller LSU Power source Option CN PWB IMC PWB MCU PWB Motherboard P Second interfac DUP reverse m Main drive motor Toner motor Drive unit PS transport clu Paper feed clut Lift up motor Transport roller Operation secti	WB otor otor utch	WB
unit H. 2nd paper exit unit I. Laser unit J. Power unit K. PWB L. Ozone filter M. Drive section N. Transport section O. Operation	(2) (1) (2) (3) (1) (1) (1) (2) (3) (4) (5) (6) (7) (1) (1)	Cooling fan Switch Sensor Roller LSU Power source Option CN PWB MCU PWB MOTHER MO	WB otor otor utch	WB

4. Details of disassembly and assembly

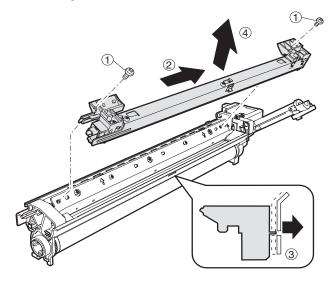
A. Process unit

(1) Drum

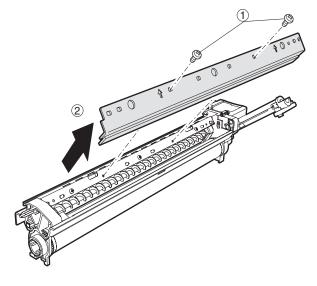


(2) Drum section

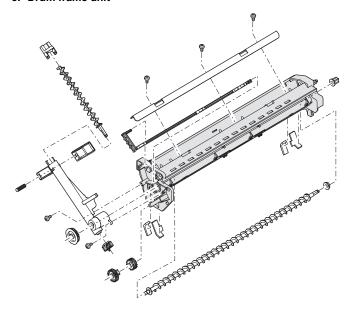
a. Main charger



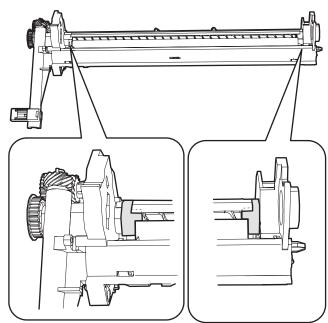
b. Cleaning blade



c. Drum frame unit



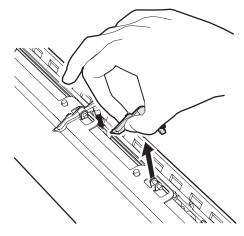
d. Moquette F/R



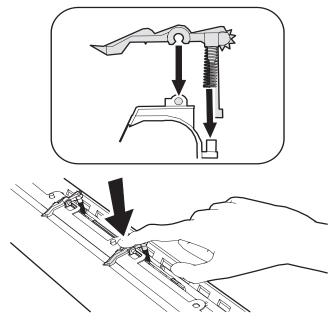
Note: If it disturbs the blade movement, replace it and attach new one.

e. Separation pawl

 $\label{eq:definition} \mbox{Disassembly}^{\star} \mbox{ Hold the tip of the separation pawl and remove it.}$

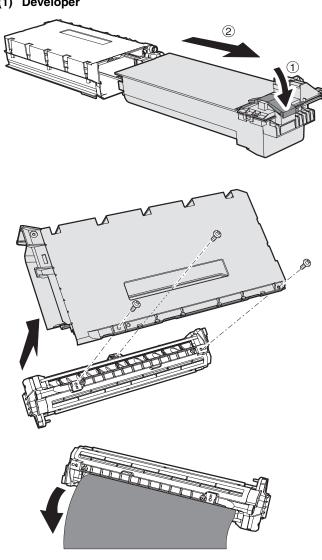


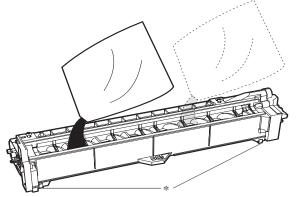
Assembly* Press the center of the separation pawl and install it.



B. Developing section

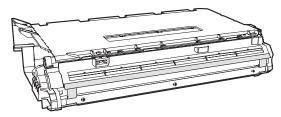
(1) Developer



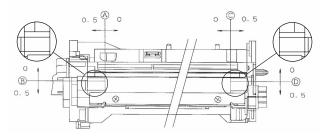


* When assembling, check that the hook is securely engaged in two positions.

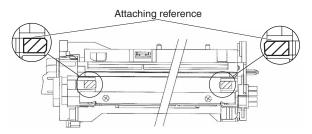
(2) DV seal/side seal



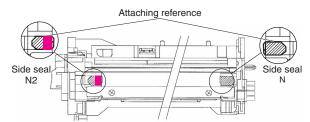
[DV seal attachment procedure]



1) When attaching the DV side Mylar, check the position shown in the figure below and attach it properly.



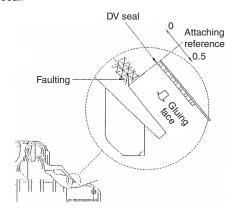
 When attaching the DV side seal, check the position shown in the figure below and attach it properly.
 (First of all, attach the DV side Mylar.)



The attachment reference is the same, but the area of the N2 shape is reduced to half as shown with the red square in the above figure.

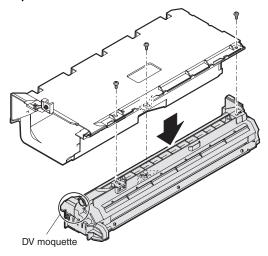
* Be sure to attach the DV side sheet so that the notch is on the outside.

Note: Attach it to fit with the attachment reference when replacing the DV seal.

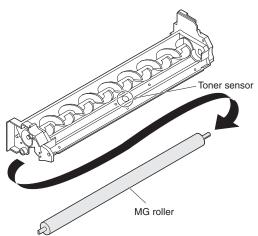


(3) DV moquette/Toner sensor

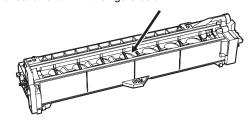
a. DV moquette



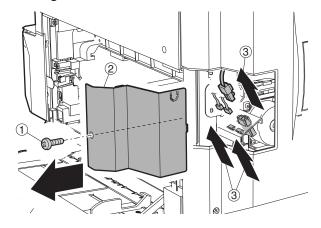
b. Toner sensor

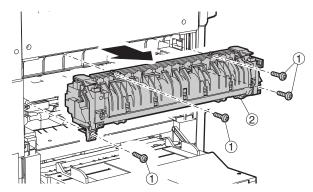


- Clean the sensor only after removing used DV when replacing DV.
- There is no need to remove the MG roller as shown in the above figure. Use waste cloth to remove toner from the sensor surface in the arrow direction shown in the figure below.

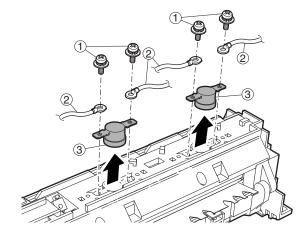


C. Fusing section

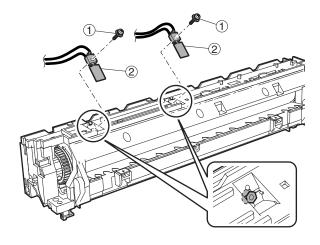




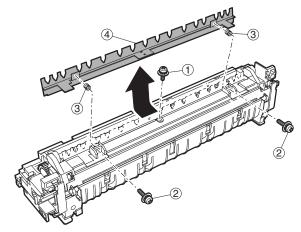
(1) Thermostat



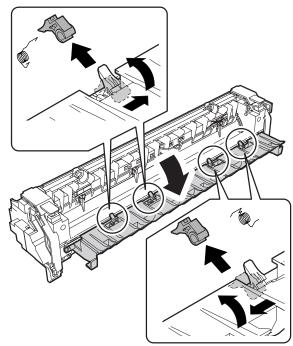
(2) Thermistor



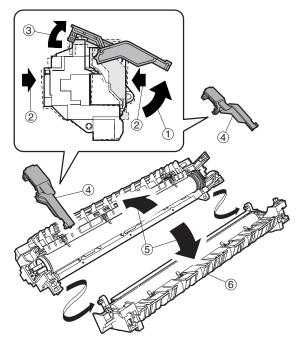
(3) Paper guide

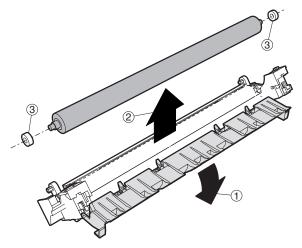


(4) Fusing Separation Pawl (lower)

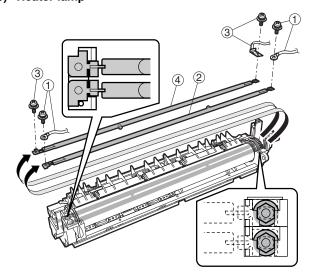


(5) Lower heat roller

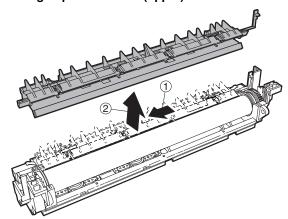


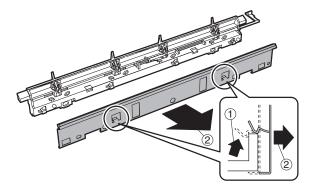


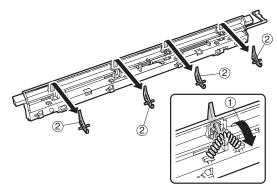
(6) Heater lamp



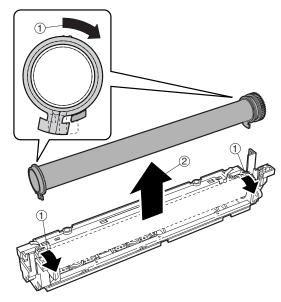
(7) Fusing Separation Pawl (upper)

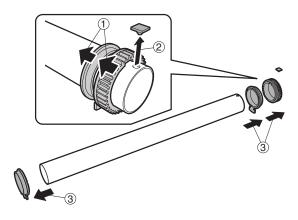






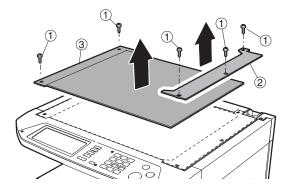
(8) Upper heat roller

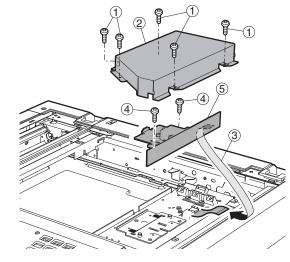




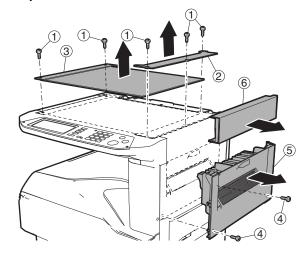
D. Optical section

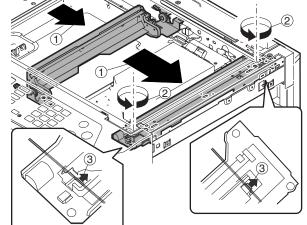
(1) CCD unit

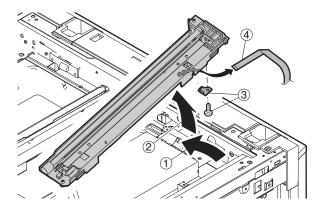




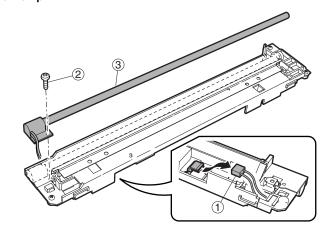
(2) Lamp unit



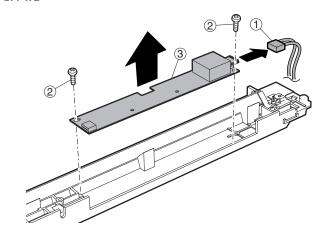




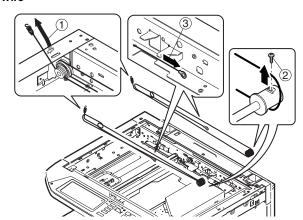
a. Lamp

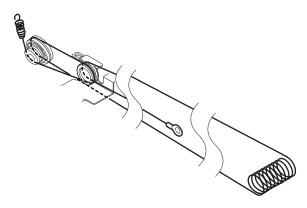


b. PWB

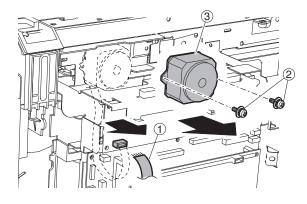


c. Wire

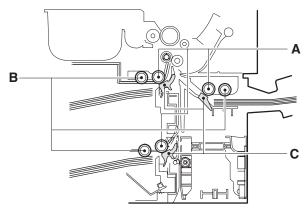




d. Mirror motor

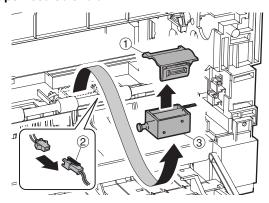


E. Paper feed section

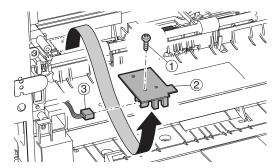


Α	Paper feed roller	
В	Pickup roller	
С	Separation sheet	

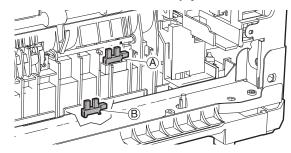
(1) Paper feed solenoid



(2) Cassette sensor PWB

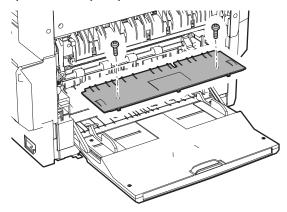


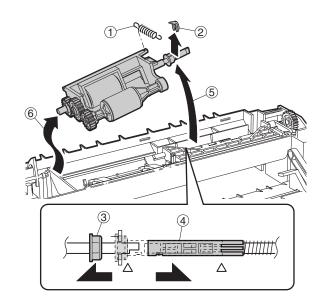
(3) Manual P-in sensor/Manual empty sensor



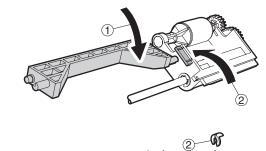
(4) Multi manual paper feed

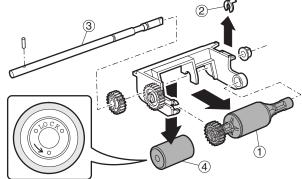
a. Paper feed roller/pickup roller



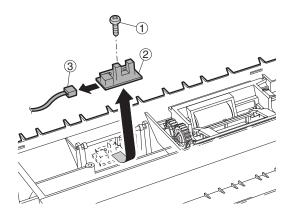


Installation*Install so that the cam transmit arm (1) comes under the roller arm (2).

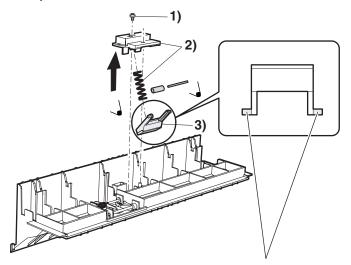




b. Reverse sensor



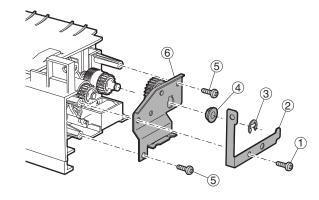
c. Separation sheet

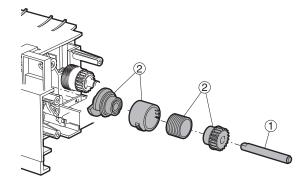


 \ast Slightly apply grease GP501MR (UKOG-0012QSZZ) around the axis. One rice grain for each.

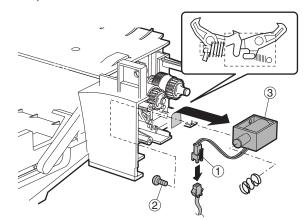
d. Clutch/solenoid

(Clutch)

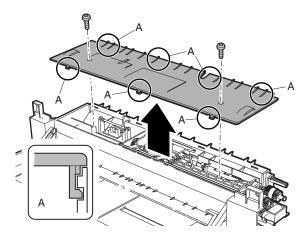


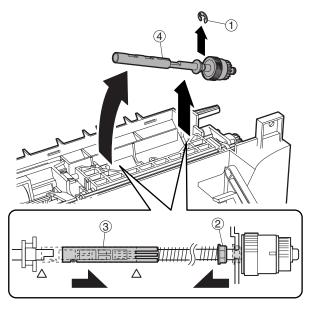


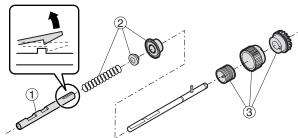
(Solenoid)



(Clutch)

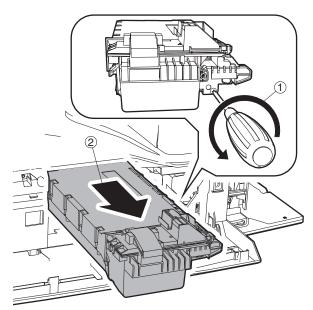


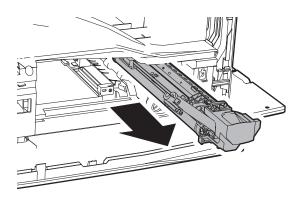




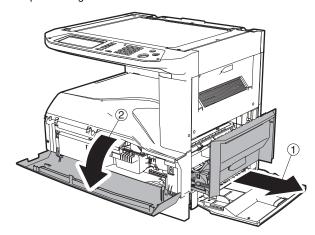
(5) Upper 500 sheets tray paper feed

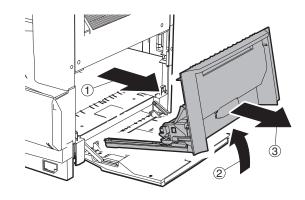
a. Paper feed roller/pickup roller

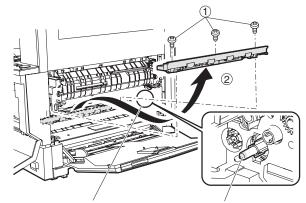




Note: With the toner cartridge installed, do not tilt or shake the developer cartridge.

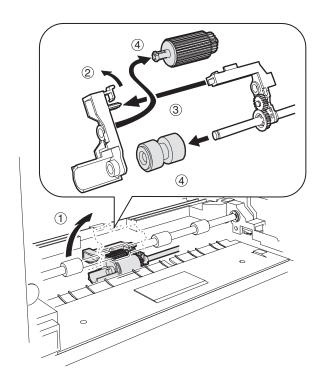




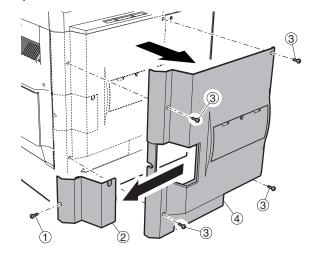


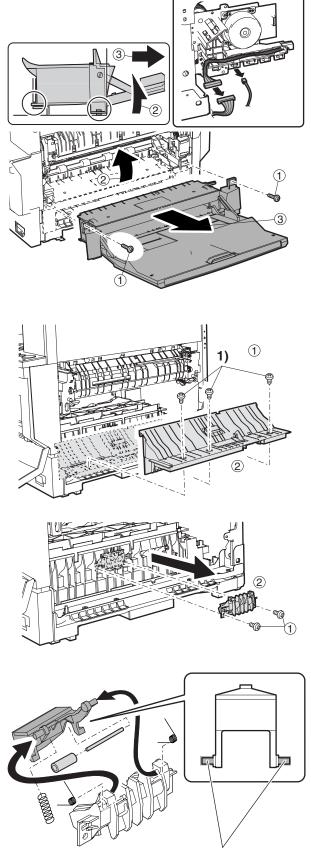
* When replacing, be careful not to adhere conduction grease (black) to the drive section.

Slightly apply grease GE676 (UKOG-0013QSZZ) to the drum boss.



b. Separation sheet

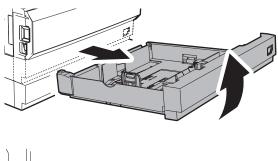


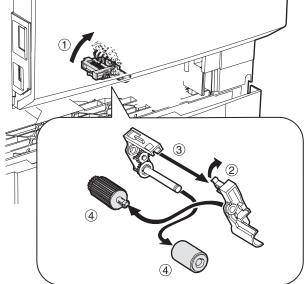


* Slightly apply grease GP501MR (UKOG-0012QSZZ) around the axis. One rice grain for each. Grease should not come out when assembling.

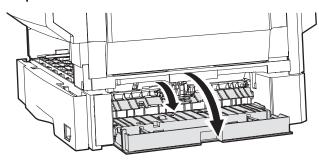
(3) Lower 500 sheets tray paper feed

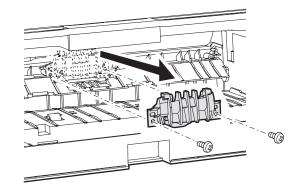
a. Paper feed roller/pickup roller

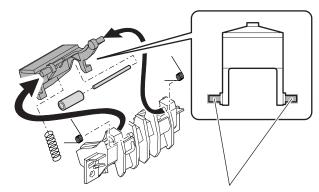




b. Separation sheet

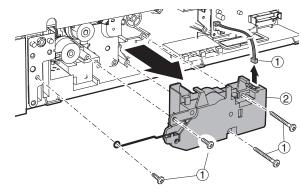




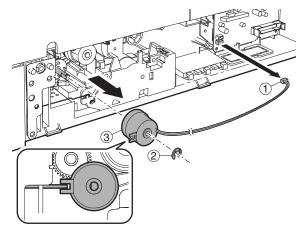


* Slightly apply grease GP501MR (UKOG-0012QSZZ) around the axis. One rice grain for each. Grease should not come out when assembling.

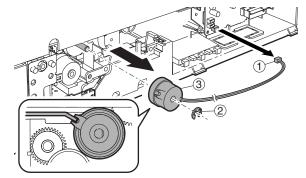
c. Lift up unit



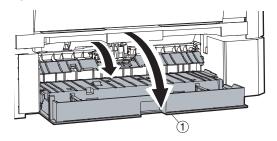
d. Transport clutch

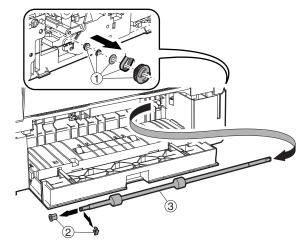


e. Paper feed clutch

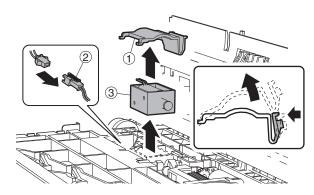


f. Transport clutch

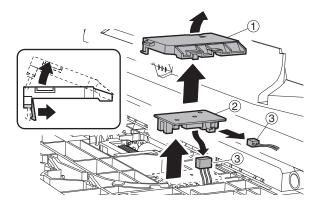




g. Solenoid

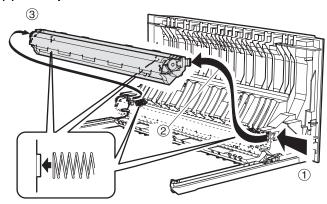


h. Sensor PWB



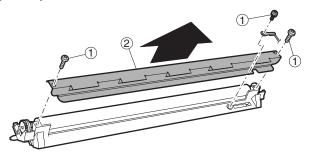
F. Side door unit

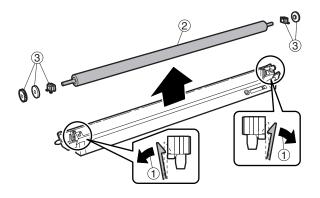
(1) Transport roller unit

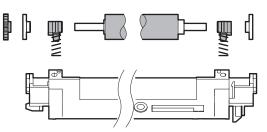


* Check that two springs are securely inserted into the transfer roller unit bosses.

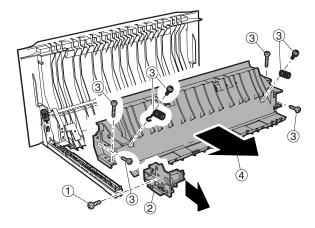
(2) Transport roller

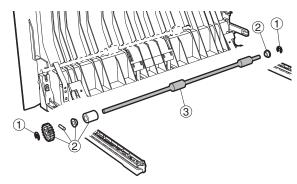




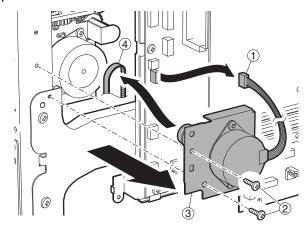


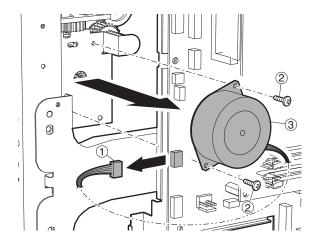
(3) DUP transport roller





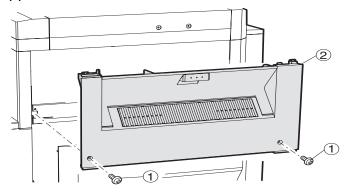
(4) DUP motor



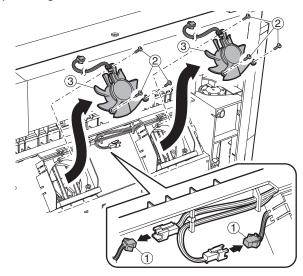


G. 1st paper exit unit

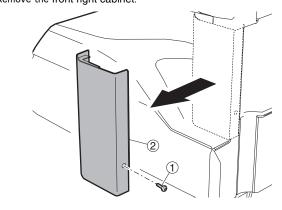
(1) Exit roller

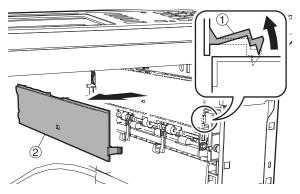


(2) Cooling fan

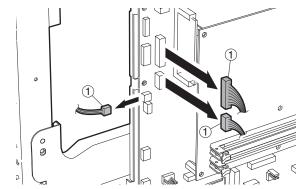


• Remove the front right cabinet.

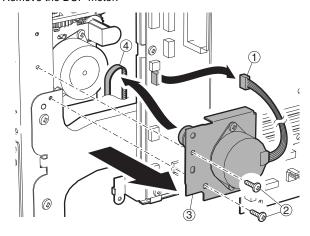




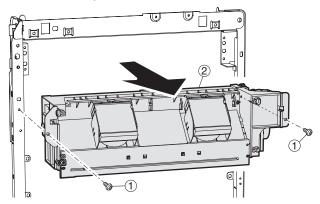
• Remove the MCU PWB section connector.

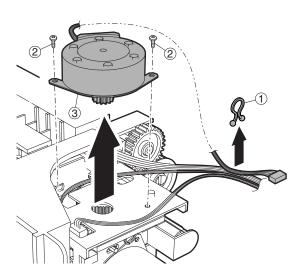


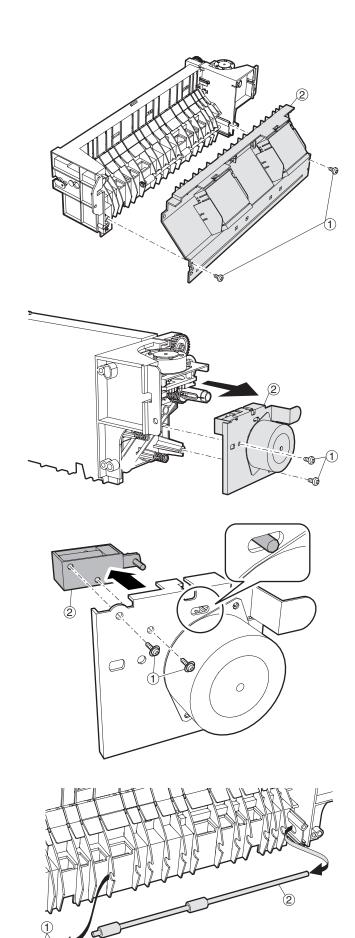
• Remove the DUP motor.

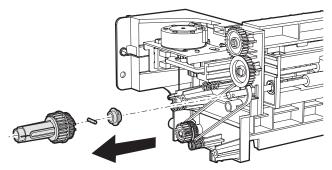


• Remove the delivery frame.

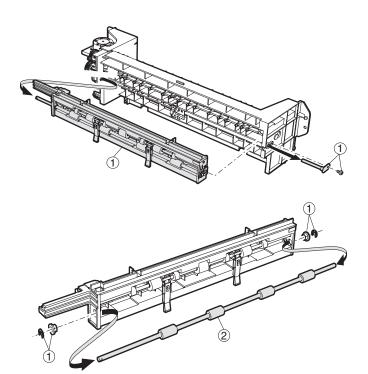




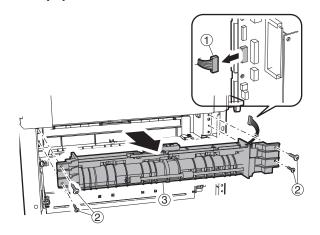




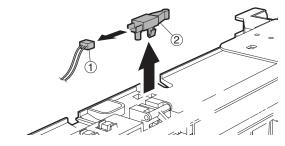
Note: Check to confirm that the solenoid shaft is in the gate bracket, and fix with the screw.



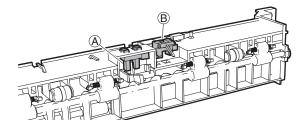
H. 2nd paper exit unit



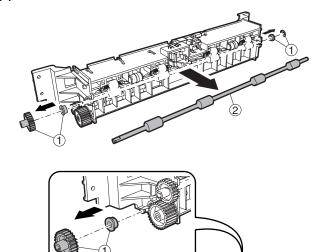
(1) Switch



(2) Sensor

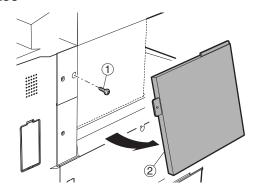


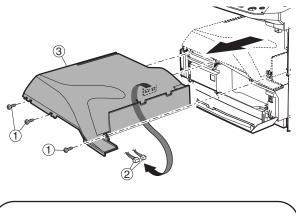
(3) Roller

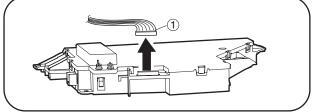


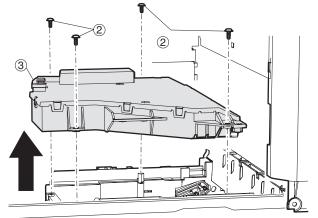


(1) LSU



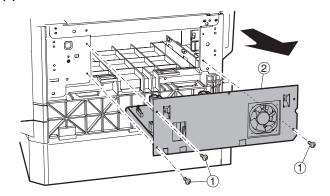


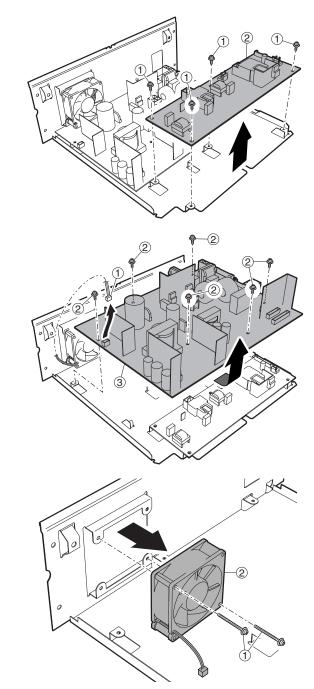




J. Power unit

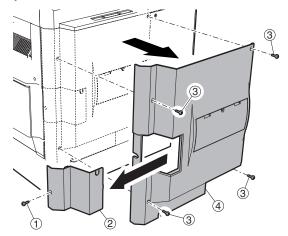
(1) Power source

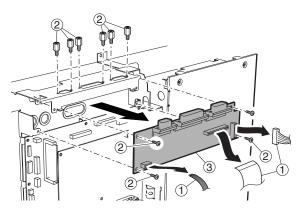




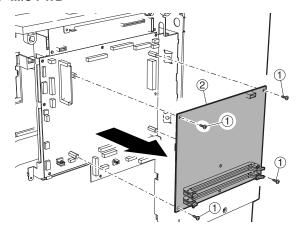
K. PWB

(1) Option CN PWB

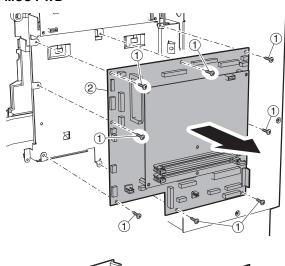


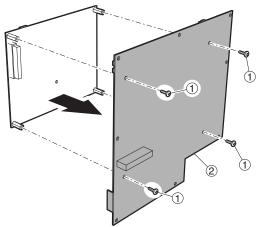


(2) IMC PWB

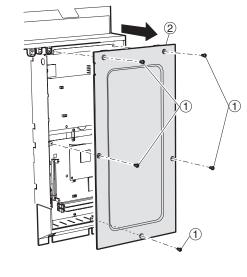


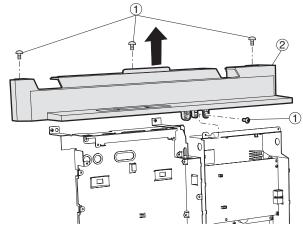
(3) MCU PWB

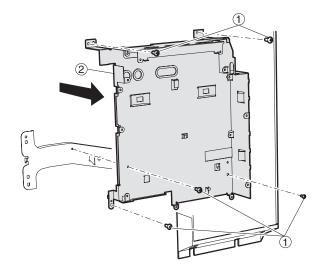


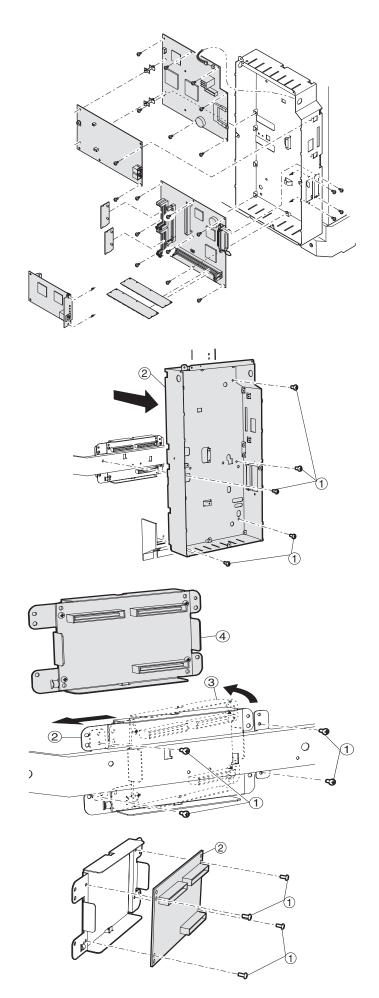


(4) Motherboard PWB

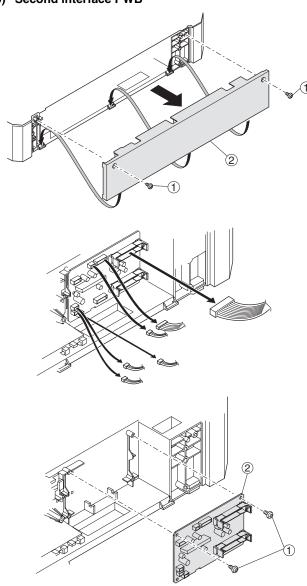




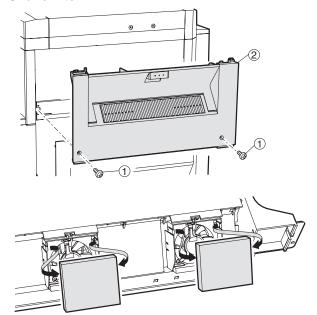




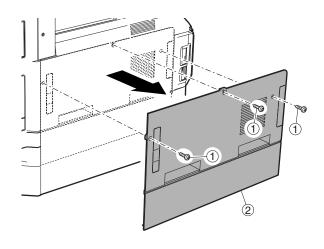
(5) Second interface PWB

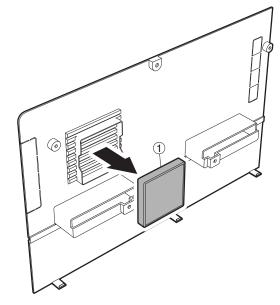


L. Ozone filter



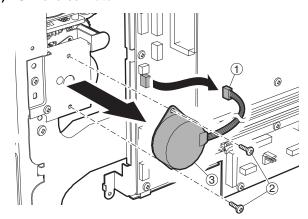
Note: Before removing the left cover, remove the No.1 cassette in advance.



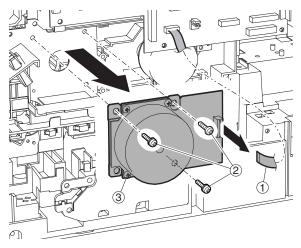


M. Drive section

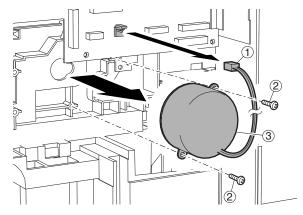
(1) DUP reverse motor



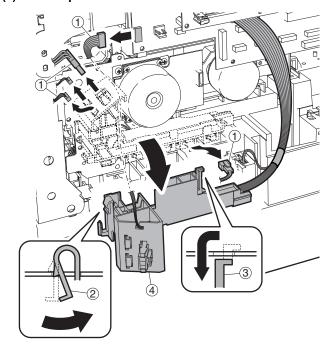
(2) Main drive motor

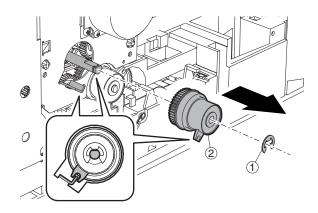


(3) Toner motor

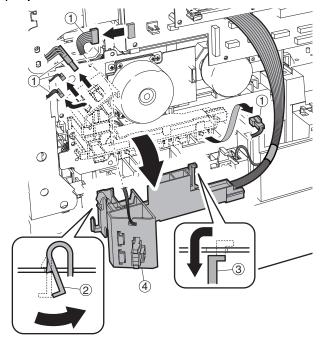


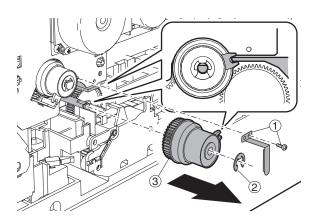
(4) PS transport clutch



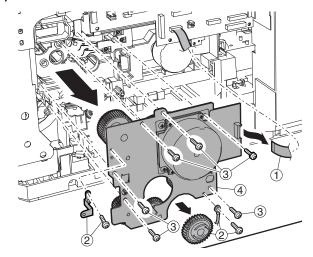


(5) Paper feed clutch

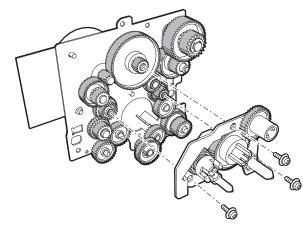




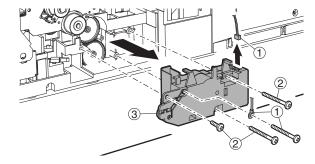
(6) Drive unit

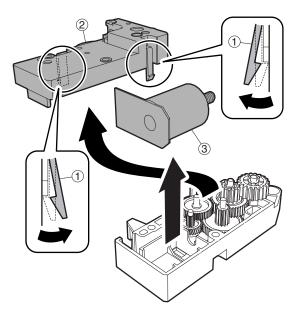


Drive unit (Grease application part)



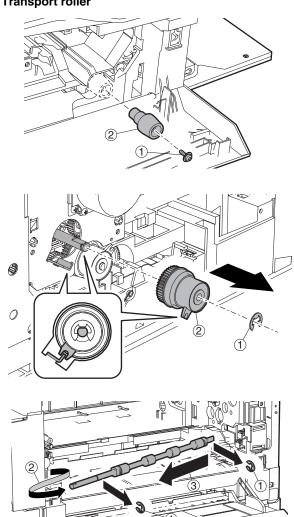
(7) Lift up motor

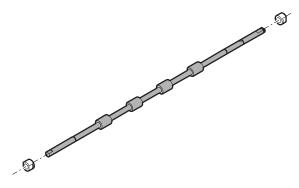




N. Transport section

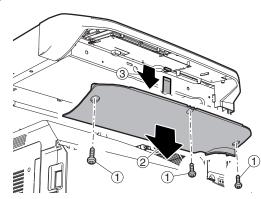
(1) Transport roller

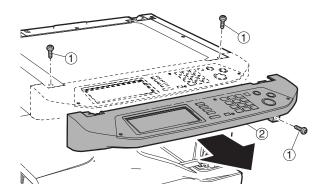




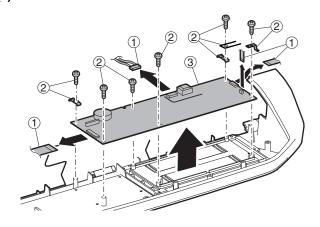
O. Operation section

(1) Operation section

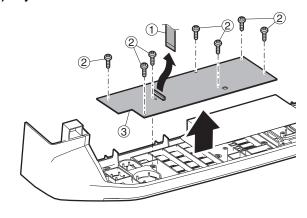




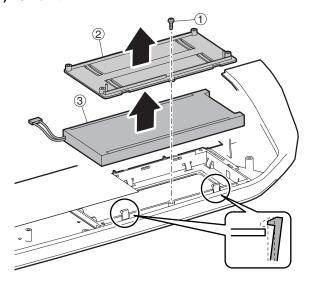
(2) OPU PWB



(3) Key PWB

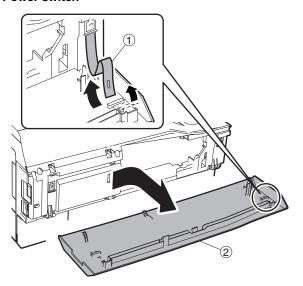


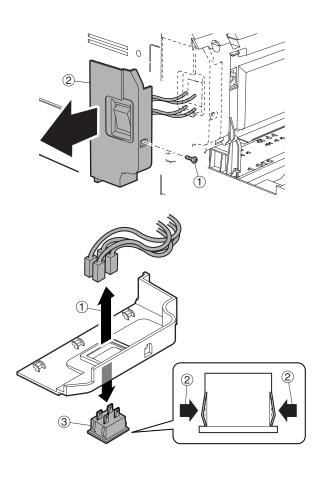
(4) LCD unit



P. Switch

(1) Power switch





[11] OTHERS

1. Flash ROM version-up procedure

(Necessary items for version-up)

- A Personal computer
- **B** RS232C cross cable (D-sub 9pin to D-sub 9pin, or D-sub 25pin to D-sub 9pin)
- C Software for version-up

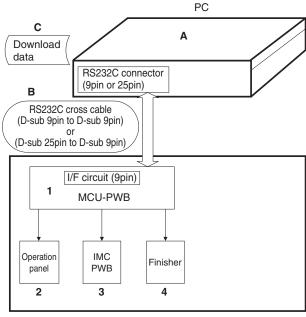
(ROM type)

The flash ROM is directly installed to each PWB.

(Target PWB)

- 1 MCU PWB
- 2 Panel PWB
- 3 IMC PWB
- 4 Finisher PWB

Outline of Version-up Procedure



(AR-M236/M276/M237/M277)

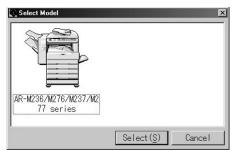
Prepare following files necessary for program download

- · Maintenance software: maintenance.exe
- Andromeda module file: ProcModelC.mdl (for AR-M236/M276/ M237/M277 series)

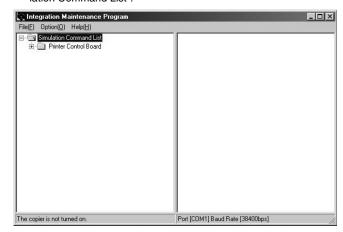
A. Program download method (for Copier, and fax program)

Following operational procedures are for:

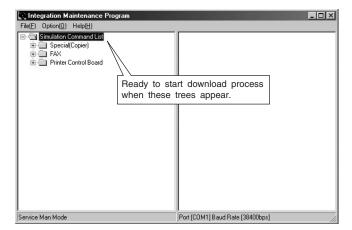
- Copier program
- · fax program
- Make sure copier is off, and connect it to PC with download cable beforehand.
- Start up the maintenance program on PC. Select model name "AR-M236/M276/M237/M277 Series" from the model selection dialogue box.



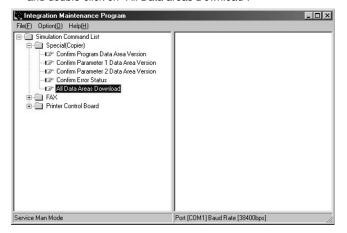
 Make sure only "Printer Control Board" tree is visible under "Simulation Command List".



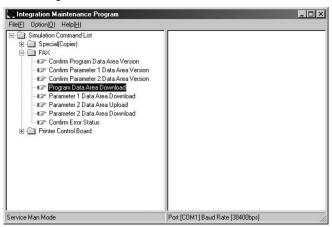
- 4) Turn on the copier. The machine starts up in the download mode.
- Additional tree will be visible when downloading maintenance program on PC.
- * Make sure to start up maintenance program before turn on the machine.



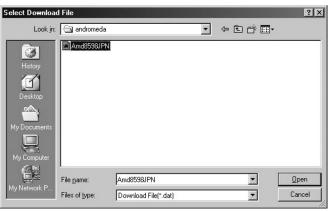
 When downloading copier program, expand "Special(Copier)", and double-click on "All Data areas Download".



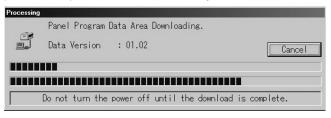
When downloading Fax program, Expand "FAX" and double click on "Program Data Area Download".



7) Select download file(*.dat), and press "Open" button.



8) Download procedure starts automatically.



- Notice message "Download is complete. Check the copier panel to make sure the download is complete." will appear on PC.
- 10) Close the maintenance program, and turn off the copier. Turn on the copier again after pulling the plug.

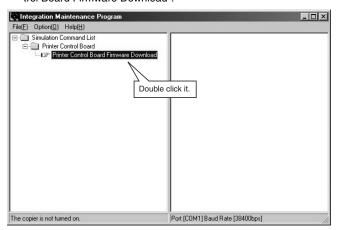
This is the end of download procedure.

* It is possible that download process somehow went wrong if the copier does not start up properly. In that case, start up the copier and maintenance program in download mode by repeating the step 1)-5) again. And then, Expand "Special", and double-click on "Confirm Error Status". If any of the message besides "No error has been occurred" appears, it means that download is incomplete, so please try again.

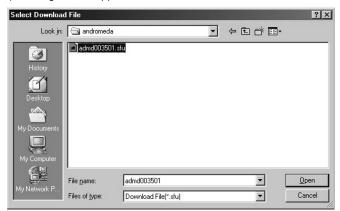
B. Printer Control Board firmware download method

Please follow the procedure below:

- Make sure copier is turned off, and connect PC and Printer Control board of the copier by parallel cable beforehand.
- * Note: It is okay to use serial cable instead.
- 2) Turn on the copier.
- Start up in copier test command mode, and execute Sim67-14 "FLASHDOWNLOAD".
- 4) And then, press OK key when notice message "PRESS OK KEY" appears on the panel. Another message "Please Send Data" will appear after a while.
- Start up the maintenance program on PC. Select model name "AR-M236/M276/M237/M277 Series" from the model selection dialogue box.
- Expand "Printer Control Board", and double-click on "Printer Control Board Firmware Download".



7) Dialog box will appear to select download file.



- 8) Select Download file(*.sfu) and press "Open" button.
- 9) Download procedure will starts automatically.
- 10) Notice message "Data Send Complete" will appear on PC.
- 11) Notice message "Download is complete. Check the copier panel to make sure the download is complete." will appear on PC.
- Close maintenance program, and reset the machine by pressing CA key.

This is the end of the download procedure.

C. Others (Troubleshooting)

Followings are the error possibly occur during the download process and troubleshooting method.

No	Warning/error message	Detail
1 Incorrect destination. Continue with the Destination of download file and copier doesn't match.		Destination of download file and copier doesn't match.
	download process?	Possible to select either continue or cancel the job.
		[TROUBLESHOOTING]
		To change destination, select "Yes". If not, select "No" and cancel download process.
2	Incorrect download file.	Invalid download file for the machine is selected, or the file format is not correct.
		[TROUBLESHOOTING]
		Confirm the download file. Possibly the improper download file is selected.
3	No downloadable data included.	Unable to find appropriate data in selected download file.
		[TROUBLESHOOTING]
		Confirm the download file. Possibly the improper download file is selected.
4	This option not available.	Download procedure is executed on uninstalled optional kit.
	·	[TROUBLESHOOTING]
		Confirm installed optional kit.
		Confirm the download file. Possibly the improper download file is selected.
5	The data size exceeds the Flash ROM size.	Panel flash ROM size is not enough to execute download procedure.
	Try again with the appropriate size of data.	[TROUBLESHOOTING]
		Confirm the download file. Possibly the improper download file is selected.
		Exchange the flash ROM to the one which has more capacity.
6	Time out error.	Transmission error
		Unable to receive data from the machine among the certain period of time.
		[TROUBLESHOOTING]
		Restart maintenance program after confirming communication port or communication cable.
7	Communication (incoming) error.	Incorrect download procedure.
		The machine did not proceed download procedure correctly.
		[TROUBLESHOOTING]
		Restart maintenance program after confirming communication port or communication cable.
		Make sure the communication device of PC(either COM or parallel) is under right condition.
8	Checksum error.	Transmission error
		The check sum value of the transmission data is mismatch.
		[TROUBLESHOOTING]
		Restart maintenance program after confirming communication device of PC (either COM or
		parallel) is under right condition.
9	Error during the download process. Error	Download data file operation error.
	code: 0xXXXXXXXX	[TROUBLESHOOTING]
		Restart maintenance program after confirming the selected download file is not abnormal and
		not using other application.
10	An error. [0xXXXXXXXX]	The error occurred except the above errors.
		[TROUBLESHOOTING]
		Restart maintenance program after confirming communication device of PC(either COM or
		parallel) is under right condition.

2. Key operator program list

Note: Some programs on the key operator program list may be unavailable depending on the machine and installing status of various peripheral devices.

A. Common program of digital copier

	Key operator programs	Set value (*: Default value)	Remarks
Account control Auditing mode		ON / OFF*	When this is set to ON, the department number must be registered in the "Account number control".
	Total pages per account	_	
	Resetting account	_	
	Account number control	_	
	Account limit setting	_	
	Account number security	ON / OFF*	
	Cancel jobs of invalid accounts	ON / OFF*	
Energy save	Auto power shut-off	ON* / OFF	
	Auto power shut-off timer	1 – 240 (Increment of 1min.) 60 (min.)*	Effective only when the "Auto power shut-off" is set to ON.
	Preheat mode setting	1 – 240 (Increment of 1min.) 15 (min.)*	
	Toner save mode	ON / OFF*	This is not displayed for SUK.
Operation settings	Auto clear setting	10 - 240 (Increment of 10sec.) 60 (sec.)*	
	Message time setting	1 – 12 (Increment of 1sec.) 6 (sec.)*	

	Key operator programs	3	Set value (*: Default value)	Remarks
Operation settings	gs Keys touch sound	Keys touch sound	Short* / Long	
		Keys touch sound at initial point	ON / OFF*	
	Touch key operation	Time to entry	0.0 - 2.0 (Increment of 0.5sec.) 0.0 (sec.)*	
	setting	Disable auto key repeat	ON / OFF*	
	Disable interrupt print	job	ON / OFF*	When the printer function is valid.
	Stream feeding mode		ON / OFF*	When the reversing single pass feeder installed.
	Display language setting		The number of languages to be set and the default value differ depending on destinations.	[List of languages to be set] American English, English, Spanish, French, German, Italian, Hungarian, Czech, Polish, Russian, Greek, Turkish, Slovak, Dutch, Swedish, Norwegian, Finnish, Danish, Portuguese, Hebrew, Simplified Chinese, Traditional Chinese
	Disable display timeout		ON / OFF*	
	Disable of tray setting	js .	ON / OFF*	
Device control	Disabling of document feeder		ON / OFF*	When the reversing single pass feeder installed.
	Disabling of duplex		ON / OFF*	
	Disabling of stapler		ON / OFF*	When the finisher installed.
	Output trays		Pattern 1* / Pattern 2 / Pattern 3 / Pattern 4	When an option of paper exit series is installed.
	Offset function setting		ON* / OFF	
	Memory for printer		30 / 40 / 50* / 60 / 70%	
	(When the printer function is valid.)	Memory area for print hold	0 / 30* / 40 / 50 / 60 / 70% (0%: Function inhibited)	When the PCL printer expansion board is installed or the model with the board.
	Disabling of center tray counting		ON / OFF*	
	Return from copy mode timing MIX size original feeding mode		1 – 60 (Increment of 1sec.) 60 (sec.)*	When the printer function or the FAX function is valid.
			ON / OFF*	When the reversing single pass feeder installed.
Key operator code change		00000* (5 digits)		
Product key	The second secon			When the printer function is valid.
(When the printer function is valid.)			_	Appears when the printer expansion kit and expansion memory are installed.
	E-MAIL alert and stat	us	_	When the PCL printer expansion board is installed or the model with the board.
	Serial number		_	

B. Copy function setting program

Key operator programs		Set value (*: Default value)	Remarks
Copy settings	Initial status settings	_	
	Rotation copy setting	ON* / OFF	
	Exposure adjustment	1/2/3*/4/5	
	Auto paper selection setting	Plain paper* / Plain and recycle paper	
	Setting a maximum number of copies	1 – 999 999*	
	Sort auto select	ON* / OFF	When the reversing single pass
			feeder installed.
	Disabling deletion of job programs	ON / OFF*	

C. Printer function setting program

Key operator programs		Set value (*: Default value)	Remarks
Print settings			
Default settings	Prohibit notice page printing	ON / OFF*	
	Print density level	1/2/3*/4/5	
	Prohibit test page printing	ON / OFF*	When the PCL printer expansion
			board is installed or the model with
			the board.
	Rotated print	ON* / OFF	
	Forced output of print	ON / OFF*	
	Excluded bypass-tray from ATS	ON* / OFF	

<u> </u>	Key operator programs	Set value (*: Default value)	Remarks
Default settings	Disable default setting changes	ON / OFF*	When the PCL printer expansion
•			board is installed or the model with
			the board.
Interface settings	Hexadecimal dump mode	ON / OFF*	When the PCL printer expansion
· ·	·		board is installed or the model with
			the board.
	I/O timeout	1 – 999 (Increment of 1sec.) 180 (sec.)*	
		(60 (sec.)*: When the PCL printer	
		expansion board is installed or the model	
		with the board.)	
	Parallel port emulation switching	Auto* / PostScript (When the PS3	When the PCL printer expansion
	r drainer pert ermanation ewitering	expansion kit is installed.) / PCL	board is installed or the model with
		expansion kit is installed.) / 1 OE	the board.
	USB port emulation switching	Auto / PostScript (When the PS3 expansion	When the PCL printer expansion
	OSB port emulation switching		
		kit is installed.) / PCL*	board is installed or the model with
	Makanada washa sanda Mara asa Maka	Auto / DootOprint (Miles alle 2000	the board.
	Network port emulation switching	Auto* / PostScript (When the PS3	When the PCL printer expansion
		expansion kit is installed.) / PCL	board is installed or the model with
			the board.
	Port switching method	Switch at end of job* / Switch after I/O	When the PCL printer expansion
		timeout	board is installed or the model with
			the board.
	Enable parallel port	ON* / OFF	When the PCL printer expansion
			board is installed or the model with
			the board.
	Enable USB port	ON* / OFF	When the PCL printer expansion
	•		board is installed or the model with
			the board.
	Enable network port	ON* / OFF	When the print server card
	r 200		installed.
	Enable ECP	ON / OFF*	When the PCL printer expansion
		3.17 3.17	board is installed or the model with
			the board.
Network settings	IP address setting	DHCP: ON* / OFF	When the PCL printer expansion
(When the print	addiooo oottiiig	5.101.014.7011	board is installed or the model with
server card			the board (Also displayed when the
installed.)			print server card is not installed.)
iiistalieu.)			
			To enable the changed setup, the power must be rebooted.
	Enable TCD/ID	ON: /OFF	•
	Enable TCP/IP Enable NetWare	ON* / OFF ON* / OFF	To enable the changed setup, the
			power must be rebooted.
	Enable EtherTalk	ON* / OFF	+
	Enable NetBEUI	ON* / OFF	When the DCI printer content in
	Reset the NIC		When the PCL printer expansion
			board is installed or the model with
		_	the board (Also displayed when the
			print server card is not installed.)To
			enable the changed setup, the
			power must be rebooted.
Initialize and/or	Restore factory default	_	
store settings	Store current configuration		
(When the PCL	_	_	
printer expansion	Restore configuration		Reboot is required only when the
board is installed			network setting is changed.
		_	3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
or the model with			

D. Network scanner function setting program

Key operator programs		Set value (*: Default value)	Remarks	
Scanner settings	Initial file format	File type	PDF / TIFF*	
(When the	setting	Compression mode	No compression / MH (G3) / MMR (G4)*	
scanner function is		Pages per file	ALL*	
valid.)	Initial quality setting	Original image type	TEXT / TEXT/PHOTO* / PHOTO	
		Exposure	Auto* / Manual (1 / 2 / 3 / 4 / 5)	
	Initial resolution setting		200dpi / 300dpi* / 400dpi / 600dpi	(400dpi: For China, Taiwan)
	Default display setting	gs	Condition settings* / Address book / Address book (ABC) / Address book (Group)	
	The number of direct add displayed setting		6 / 8* / 12 (pcs.)	

3. E-mail Status/E-mail Alerts

A. Basic functions

- Event driven type text message transmission by using MIB information of Printer control board.
- 2) Management information which body has is coded and transmitted in a file type according to the schedule or in the event driven type. In this case, the specified mail software is used to receive and develop the data.

The above functions are available as standard provision only when the NIC card are installed.

For 2), the software key protect is made.

B. Main body specifications

The body provides event information to the controller, according to setup the file can be transmitted as an attached file as information for dealers. When a dealer's mail address is set, a file can be attached only to a mail which is transmitted to the mail address.

To read the attached file, the specified mail software is required. That is, the attached file includes numeral information of each main body and event information in coded state. If the other mail software is used to receive, the display contents on the client side cannot be guaranteed.

C. Printer controller specifications

The controller supports the following transmission functions:

- Text mail transmission by event driven setup and schedule driven setup.
- Mail transmission with an attached file by event driven setup and schedule driven setup. For the attached file, the printer controller makes a file of information data from the MCU.
- It controls sending time and requests for the machine information at the sending time to the MCU.

(1) Additional machine information

Information to identify the machine. The user administrator manually enters this information by using a browser. The information is displayed in the text of the mail.

- * These items of information are kept on the controller side or on the NIC side.
- · Machine name
- · Machine code
- · Installation place

(2) Alert Message

ID	Event	Message	Condition	
1	Paper Jam	!!! MISFEED HAS OCCURRED !!!	When paper/document jam has occurred. If a jam is detected when the power is	
			turned ON or reset, checking is made again.	
2	Toner Low	!!! TONER SUPPLY IS LOW !!!	When toner LOW is detected for the first time. If toner LOW is detected when the	
			power is turned ON or reset, checking is made again.	
3	Toner Empty	!!! ADD TONER !!!	When toner empty is detected for the first time. If toner empty is detected when	
			the power is turned ON or reset, checking is made again.	
4	Paper Empty	!!! LOAD PAPER/XXX !!!	When paper empty is detected for the first time. If paper empty is detected when	
			the power is turned ON or reset, checking is made again. No information on the	
			number of steps of trays. Manual feed is not supported. When a tray empty is	
			detected, information of all the trays that are empty at that time is delivered.	
5	Service Required	!!! CALL FOR SERVICE !!!	When the machine enters the self-diagnosis mode. If detected when the power is	
			turned ON or reset, checking is made again.	
6	PM Required	!!! MAINTENANCE REQUIRED !!!	When the maintenance counter or the developer counter reaches the specified	
			count. If detected when the power is turned ON or reset, checking is made again.	

(3) Status Message

Counter information

When schedule driven is set, the total counter, the copy counter, and the printer counter are displayed in a mail address for general. These information items are supplied from the controller MIB. The "total counter" means the "effective paper counter" controlled by the MCU.

Timer information

For schedule drive message, the Printer controller controls transmission time by means, and transmits a mail.

Timer setup is made from the Web setup page.

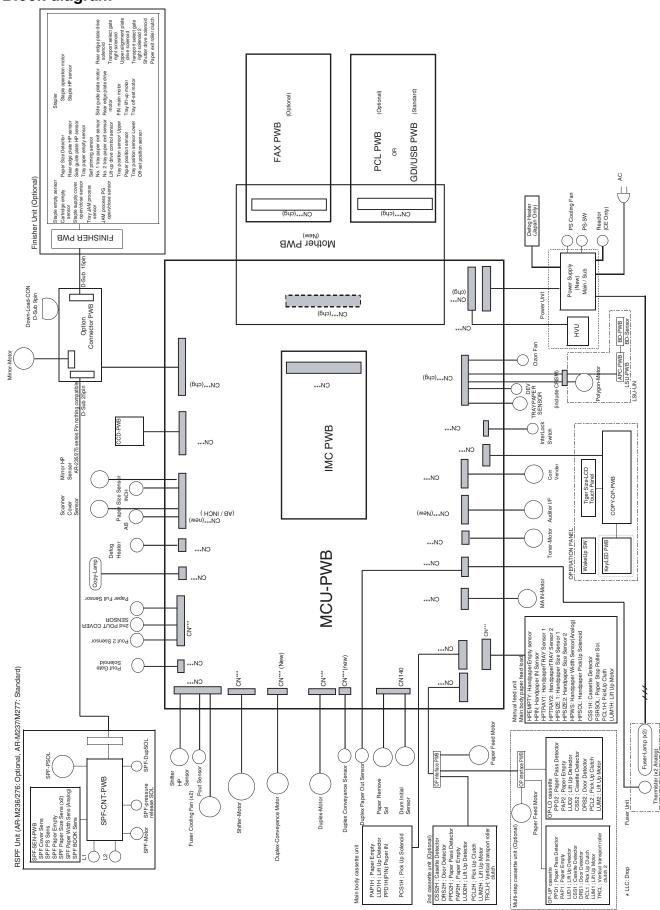
D. Handling of transmission data

In E-mail Alerts and E-mail Status, a transmission task is generated regardless of the job which is under process in the machine. These tasks are processed in the following rules:

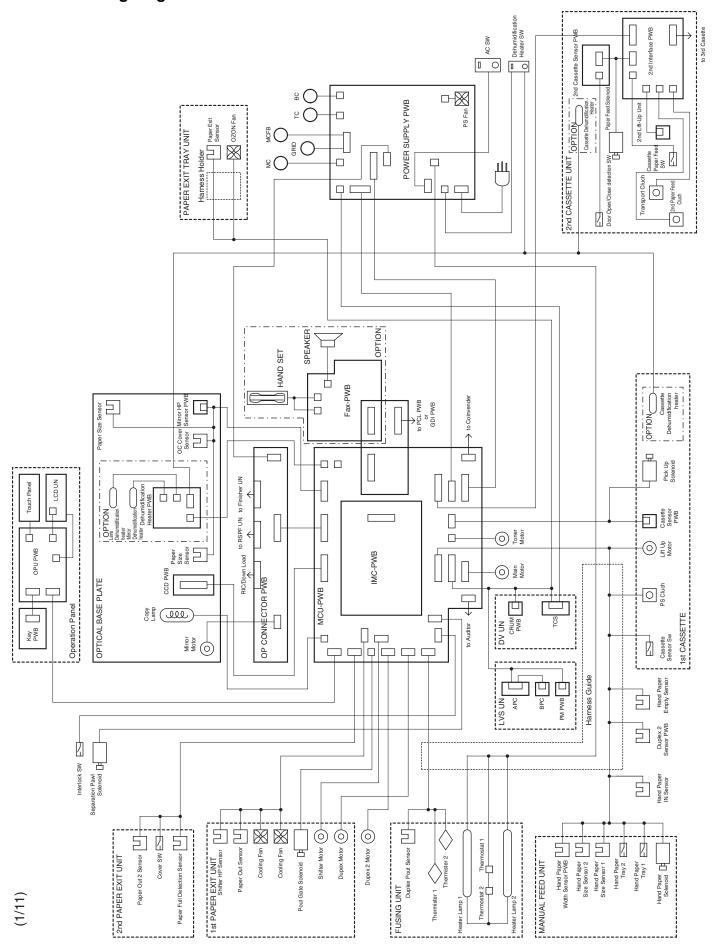
- When the machine receives a mail transmission request during a job process (copy scan, copy output, print output, other process) of the machine, it performs transmission process regardless of the job.
- When the machine receives a mail transmission request under other situation, if the job is triggered during transmission process, the job is started.
- When the machine receives a mail transmission request during the simulation mode, the request is accepted and transmission process is started.
- When the machine receives a mail transmission request during the key operator program, it is accepted and transmission process is started.
- When the controller sends two or more requests during a job, only the last request is accepted.

[12] ELECTRICAL SECTION

1. Block diagram



2. Actual wiring diagram



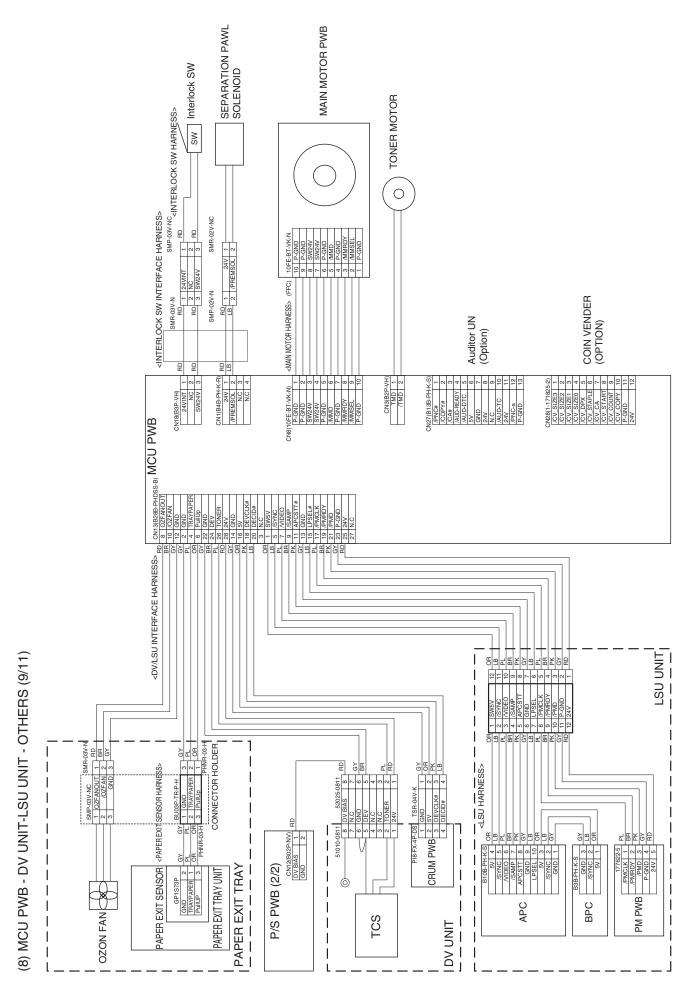
(1) MCU PWB - OPERATION PANEL UNIT (2/11)

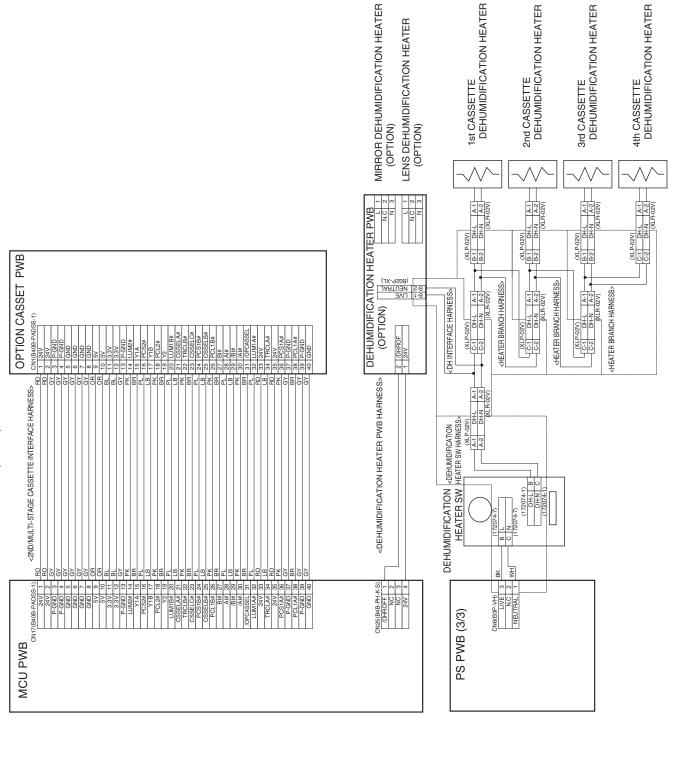
(2) MCU PWB - OPTICAL BASE PLATE (SENSOR) (3/11)

(3) MCU PWB - OPTICAL BASE PLATE - OP CONNECTOR PWB (4/11)

(5) MCU PWB - FUSING UNIT - POWER SUPPLY PWB (6/11)

Socket Holder TC high voltage Holder PS FAN # 187 0 0 AC SW PK <GB/MCFB HARNESS> WH <TC HARNESS> WH 8 BK <MC HARNESS> <BC HARNESS> <AC SW HARNESS> BK AC-L OUT 1 BK AC-N OUT 2 WH AC-N OUT 3 BK AC-L IN 4 BK N.C 5 WH 8 CN1(B03P-VL)
LIVE 1
N.C 2
NEUTRAL 3
F-GND CN102(B3B-PH-K-S) /PSFAN 1 N.C 2 GND 3 CN2(B06P-VL) CMODITIETO PH.K.5.7 P.GNO F.1 P.GNO F.3 P.GNO





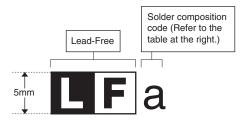
AR-M236/M276/M237/M277 ELECTRICAL SECTION 12 - 12

LEAD-FREE SOLDER

The PWB's of this model employs lead-free solder. The "LF" marks indicated on the PWB's and the Service Manual mean "Lead-Free" solder.

The alphabet following the LF mark shows the kind of lead-free solder.

Example:



<Solder composition code of lead-free solder>

Solder composition	Solder composition code
Sn- <u>Ag</u> -Cu	a
Sn-Ag- <u>B</u> i Sn-Ag- <u>B</u> i-Cu	b
Sn- <u>Z</u> n-Bi	Z
Sn- <u>I</u> n-Ag-Bi	i
Sn-Cu- <u>N</u> i	n
Sn-Ag-Sb	S
Bi-Sn-Ag-P Bi-Sn-Ag	р

(1) NOTE FOR THE USE OF LEAD-FREE SOLDER THREAD

When repairing a lead-free solder PWB, use lead-free solder thread.

Never use conventional lead solder thread, which may cause a breakdown or an accident.

Since the melting point of lead-free solder thread is about 40°C higher than that of conventional lead solder thread, the use of the exclusive-use soldering iron is recommendable.

(2) NOTE FOR SOLDERING WORK

Since the melting point of lead-free solder is about 220°C, which is about 40°C higher than that of conventional lead solder, and its soldering capacity is inferior to conventional one, it is apt to keep the soldering iron in contact with the PWB for longer time. This may cause land separation or may exceed the heat-resistive temperature of components. Use enough care to separate the soldering iron from the PWB when completion of soldering is confirmed.

Since lead-free solder includes a greater quantity of tin, the iron tip may corrode easily. Turn ON/OFF the soldering iron power frequently. If different-kind solder remains on the soldering iron tip, it is melted together with lead-free solder. To avoid this, clean the soldering iron tip after completion of soldering work.

If the soldering iron tip is discolored black during soldering work, clean and file the tip with steel wool or a fine filer.

CAUTION FOR BATTERY REPLACEMENT

Danish) ADVARSEL!

Lithiumbatteri – Eksplosionsfare ved fejlagtig håndtering.
Udskiftning må kun ske med batteri
af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandoren.

(English) Caution!

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the manufacturer.

Dispose of used batteries according to manufacturer's instructions.

(Finnish) VAROITUS

Paristo voi räjähtää, jos se on virheellisesti asennettu. Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

(French) ATTENTION

Il y a danger d'explosion s' il y a remplacement incorrect de la batterie. Remplacer uniquement avec une batterie du même type ou d'un type équivalent recommandé par le constructeur.

Mettre au rebut les batteries usagées conformément aux instructions du fabricant.

(Swedish) VARNING

Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en ekvivalent
typ som rekommenderas av apparattillverkaren.
Kassera använt batteri enligt fabrikantens
instruktion.

(German) Achtung

Explosionsgefahr bei Verwendung inkorrekter Batterien.
Als Ersatzbatterien dürfen nur Batterien vom gleichen Typ oder vom Hersteller empfohlene Batterien verwendet werden.
Entsorgung der gebrauchten Batterien nur nach den vom Hersteller angegebenen Anweisungen.

CAUTION FOR BATTERY DISPOSAL -

(For USA, CANADA)

"BATTERY DISPOSAL"

THIS PRODUCT CONTAINS A LITHIUM PRIMARY
(MANGANESS DIOXIDE) MEMORY BACK-UP BATTERY
THAT MUST BE DISPOSED OF PROPERLY. REMOVE THE
BATTERY FROM THE PRODUCT AND CONTACT YOUR
LOCAL ENVIRONMENTAL AGENCIES FOR INFORMATION
ON RECYCLING AND DISPOSAL OPTIONS.

"TRAITEMENT DES PILES USAGÉES"
CE PRODUIT CONTIENT UNE PILE DE SAUVEGARDE DE
MÉMOIRE LITHIUM PRIMAIRE (DIOXYDE DE MANGANÈSE)
QUI DOIT ÊTRE TRAITÉE CORRECTEMENT. ENLEVEZ LA
PILE DU PRODUIT ET PRENEZ CONTACT AVEC VOTRE
AGENCE ENVIRONNEMENTALE LOCALE POUR DES
INFORMATIONS SUR LES MÉTHODES DE RECYCLAGE ET
DE TRAITEMENT.



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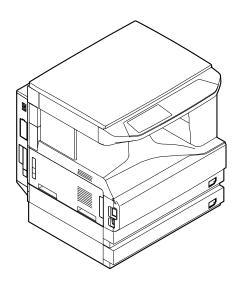
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SHARP

PARTS GUIDE

CODE:00ZARM277/P1E



DIGITAL LASER COPIER / PRINTER

AR-M277 AR-M237 AR-M276 MODEL AR-M236

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Because parts marked with " Λ " is indispensable for the machine safety maintenance and poeration, it must Be replaced with the parts specific to the product specification.

DEFINITION

The definition of each Rank is as follows and also noted in the list

Rank A: Maintenance parts, and consumable parts which are not included in but closely related to maintenance parts

Rank B: Performance/function parts (sensors, clutches, and other electrical parts), consumable parts

Rank E: Unit parts including PWB

Rank D: Preparation parts (External fitting, packing, parts packed together)
Rank C: Parts other than the above (excluding sub components of PWB)

Because parts marked with "A" is indispensable for the machine safety maintenance and operation, it must be replaced with the parts specific to the product specification.

- Other than this Parts Guide, please refer to documents Service Manual (including Circuit Diagram) of this model.
- O Please use the 13 digit code described in the right hand corner of front cover of the document, when you place an order.
- O For U.S. only-Use order codes provided in advertising literature. Do not order from parts department.

Exteriors 1

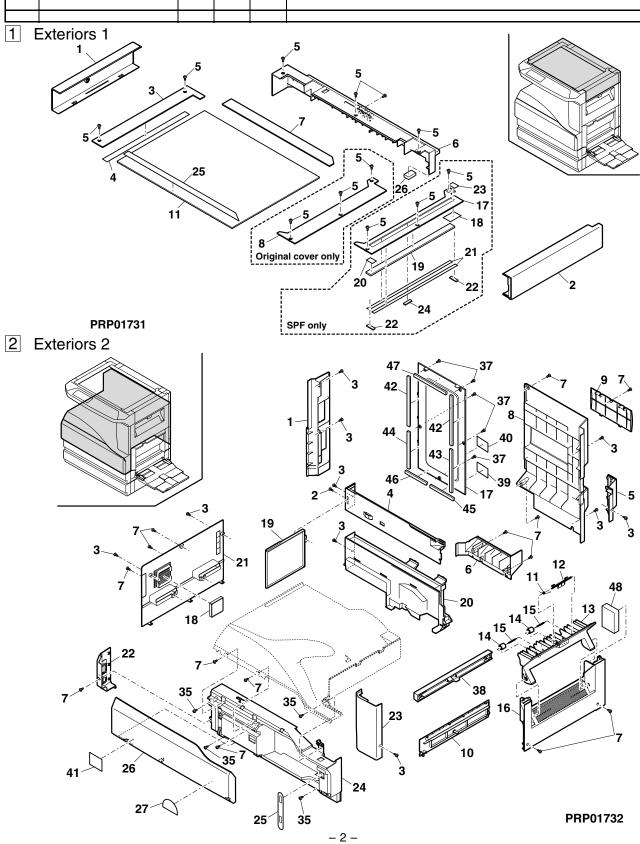
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
1	GCAB-0081QSZZ	AN	N	D	Optical left cabinet
2	GCAB-0080QSZZ	AN	N	D	Optical right cabinet
3	CFiX-0013QS05	AN	N	D	Glass fixing plate
4	PSHEZ0220QSZ1	AK		O	Shadhing sheet
5	L X - B Z 0 0 2 4 Q S Z Z	AA		O	Screw
6	GCAB-0084QSZZ	AV	N	D	Rear exterior upper
7	CG i DM 0 1 1 6 Q S 0 2	AK		С	OR guide unit
8	LF i X - 0 0 1 1 Q S Z B	AP	N	D	SPF fixing gluss (AR-M276/M2
11	PGLSP0003QSZZ	BA		В	Table glass
17	LF i X - 0 0 1 2 Q S Z B	AK	N	D	SPF fixing gluss (AR-M277/M2
18	PSHEZ0221QSZZ	AC		С	White revise sheet (AR-M277/M2
19	PGLSP0004QSZZ	AX		В	Glass (AR-M277/M2
20	PSHEZ0207QSZZ	AC		С	SPF glass sheet F (AR-M277/M2
21	PSHEZ0222QSZZ	AC		С	Glass fixing sheet (AR-M277/M2
22	PCUSS0011QSZZ	AB		С	Glass cushion (AR-M277/M2
23	PSHEZ0208QSZZ	AC		С	Glass sheet R (AR-M277/M2
24	PCUSS0027QSZZ	AA		С	Glass cushion C (AR-M277/M2
25	PSHEZ0088QSZ1	AD	N	С	Table glass sheet F
26	PMLT-0093QSZZ	AB	N	С	Rear exterior upper cushion
	_		, and the second		

2 Exteriors 2

NIO			NEW	PART	
NO.	PARTS CODE	PRICE RANK	MARK		DESCRIPTION
1	GCAB-0042QSZB	AQ	N	D	Rear exterior left
2	XEBSE30P12000	AA		С	Screw(3×12)
3	XHBSE30P08000	AA		С	Screw(3×8)
4	GCŌV-0029QSZ1	AR	N	D	Delivery rear side cover upper
5	GCŌV-0056QSZZ	AH	N	D	Rear exterior maintenance cover
6	GCAB-0043QSZB	AN	N	D	Rear exterior lower
	XEBSE40P10000	AA		С	Screw(4×10)
	GCAB-0085QSZZ	AZ	N	D	Rear exterior right
	GCOV-0034QSZB	AK	N	D	Rear exterior memory cover
	GCOV-0031QSZZ	AK		D	Delivery dummy cover (AR-M276/M236)
	MSPRD0189QSZZ	AB		С	Right cabinet spring
	MLEVP0069QSZZ	AD		С	Right cabinet lever
13	GDOR-0003QSZ1	AP		D	Right cabinet door
14	NRŌLP1060FCZZ	AF		С	U-turn roller
15	MSPRT0229GCAZ	AC		С	FU spring R
16	GCAB-0039QSZB	AX	N	D	Right cabinet
17	GCŌV-0043QSZ1	AS		D	OP PWB cover
18	PF i L Z 0 0 1 1 Q S Z 1	AQ		В	Ozon filter
19	GCŌV-0055QSZZ	AN	N	D	Delivery tray cover
	GCŌV-0054QSZZ	AX	N	D	Delivery rear cover lower
21	GCŌV-0052QSZZ	AY	N	D	Power supply cover
	GCŌV-0053QSZ1	AG	N	D	Power supply switch cover
23	CCAB-0082QS01	AP	N	D	Front right cabinet
	GCAB-0083QSZZ	AW	N	D	Front cabinet
	LBNDZ0002QSZZ	AC	N	С	Band
	CCOV-0051QS08	AX	N	D	Front cabinet cover (AR-M277)
	CCOV-0051QS07	AX	N	D	Front cabinet cover (AR-M237)
	CCOV-0051QS02	AX	N	D	Front cabinet cover (AR-M276)
	CCŌV-0051QS01	AX	N	D	Front cabinet cover (AR-M236)
	TLABZ4047FCZZ	AC		O	Enagy star label (U.S.A,Europe,Australia,New Zealand)
	TLABG0401QSZZ	AR		C	Enagy star label (Hong Kong)
	XHBSE40P10000	AA		C	Screw(4×10)
	L X - B Z 0 0 2 4 Q S Z Z	AA		С	Screw
	G C O V - 0 0 4 2 Q S Z Z	AK		D	Rail dummy cover (Except LAG2,4)
39	TCAUA0770FCZZ	AB		D	Servise caution label

2 Exteriors 2

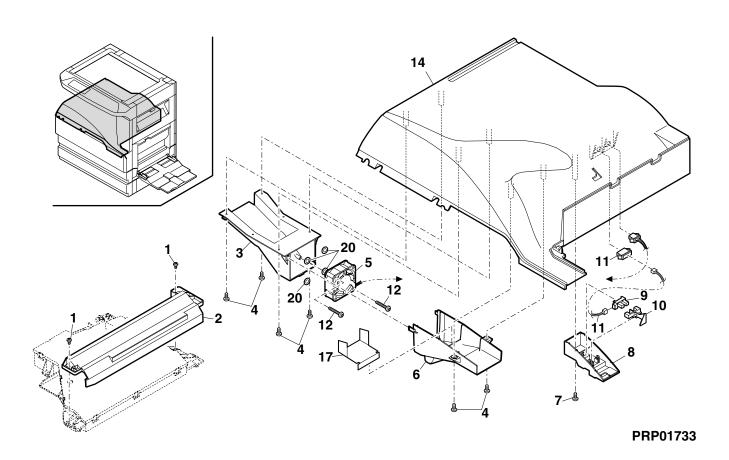
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK		DESCRIPTION
40	TLABZ0058QSZZ	AD		D	Class 1 label	[Except U.S.A,Canada,Taiwan,LAG2,Brazil]
41	TLABZ4312FCZZ	AE		D	ECP label	(Canada)
42	PGSK-0011QSZZ	AS		С	OP PWB cover cushion A	(Taiwan)
43	PGSK-0012QSZZ	AQ		С	OP PWB cover cushion B	(Taiwan)
44	PGSK-0013QSZZ	AP		С	OP PWB cover cushion C	(Taiwan)
45	PGSK-0014QSZZ	AM		С	OP PWB cover cushion D	(Taiwan)
46	PGSK-0015QSZZ	AL		С	OP PWB cover cushion E	(Taiwan)
47	PGSK-0016QSZZ	AP		С	OP PWB cover cushion F	(Taiwan)
48	PMLT-0088QSZZ	AE	N	С	Right exterior upper cushion R	



3 Delivery tray section

NO.	PARTS CODE	PRICE RANK		PART RANK	DESCRIPTION
1	XEPSD30P14X00	AA		С	Screw(3×14)
2	PCOVP0085QSZZ	AP		D	Exhaust cover
3	PBOX-0016QSZZ	AN	N	С	Exhaust fan box
4	XEBSD30P10000	AA		С	Screw(3×10)
5	NFANP0015QSZZ	BA	N	В	Ozon fan motor
6	PDUC-0004QSZZ	AL		С	Exhaust fan duct
7	XEBSE30P12000	AA		С	Screw(3×12)
8	PBŌX-0006QSZZ	AF		D	Delivery sensor BOX
9	VHPGP1S73P+-1	AF		В	Photo sensor(GP1S73P)
10	MLEVP0068QSZZ	AC		С	Delivery tray actuator
11	DHA i - 0 3 7 0 Q S Z Z	AF	Ν	O	Delivery paper detect sensor harness
12	LX-BZ0030QSZZ	AC		С	Screw(M3×34P)
14		BB	N	D	Delivery tray
17	PSHEZ0286QSZZ	AE		С	Exhaust fan sheet
20	PSHEZ0283QSZZ	AB		С	Fan motor sheet

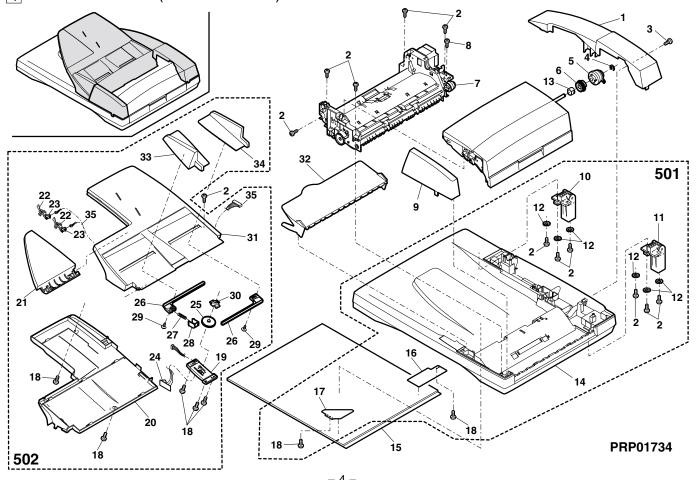
3 Delivery tray section



4 RSPF Exteriors 1(AR-M237/M277)

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
1	GCAB-0075QSZZ	AR	N	D	Rear exterior
2	XEBSE40P12000	AA		С	Screw(4×12)
3		AA		С	Screw(3×8)
4	LSTPP0016QSZZ	AC	N	С	Stopper
5	PCLC-0017QSZZ	AT	N	В	SPF paper feed clutch
6	NPLYZ0033QSZZ	AD	N	В	Coupling pulley(39P)
7	CG i DM 0 1 0 6 R S 5 1	BL	N	Е	SPF Transport unit
8		AA		С	Screw(3×10)
	GCAB-0074QSZZ	AK	N	D	Front exterior
10	MHNG-0021QSZZ	AX	N	С	SPF hinge L
	MHNG-0022QSZZ	AX	N	С	SPF hinge R
12	XWVSD40-05000	AA		С	Washer
	NBRGC0018QSZZ	AD		С	Bearing
	L S O U - 0 0 3 7 Q S Z Z	BE	N	С	Base tray
	PCUSS0022QSZZ	AW		С	OC mat
16	PSHEZ0413QSZZ	AD	N	С	OC mat sheet R
17	PSHEZ0077QSZ1	ΑE		С	OC mat sheet F
	XEBSE30P08000	AA		С	Screw(3×8)
	LPLTP0321QSZZ	ΑE	N	С	Sensor plate
	GCAB-0078QSZZ	AV	N	D	Original tray lower exterior
21	L S O U - 0 0 3 9 Q S Z Z	AN	N	С	Original tray S
22	MLEVP0098QSZZ	AC	N	С	Original detect actuator
23	VHPGP1S73P+-1	AF		В	Photo sensor(GP1S73P)
24	CPWBF1501FCE2	AS	N	Е	SPF VR PWB unit
25	NGERP0168QSZZ	AD	N	С	Gear(36T)
26	NGERR0169QSZZ	AE	N	С	Gear
27	MSPRC0250QSZZ	AC		С	Tray lock spring
	PTME-0271FCZZ	AD		С	Tray lock pawl
	XEPSD30P08X00	AA		С	Screw(3×8)
	MSPRP0315QSZZ	AD	N	С	Regulation plate spring
31	L S O U - 0 0 3 8 Q S Z Z	AW	N	С	Original tray
32	L S O U - 0 0 4 1 Q S Z Z	AP	N	С	Middle tray
	LPLTP0319QSZZ	AH	N	С	Regulation plate F
	LPLTP0320QSZZ	AH	N	С	Regulation plate R
	DHA i - 0 3 8 6 Q S Z Z	AK	N	C	Original tray harness
	CSOU-0037RS51	BQ	N	Е	Base tray unit(Include Block 5-501)
502	CSŌU-0038RS51	BF	N	Е	Original tray unit

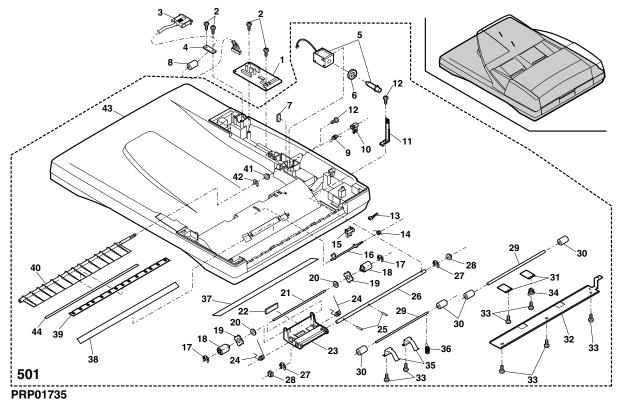
4 RSPF Exteriors 1(AR-M237/M277)



5 RSPF Exteriors 2(AR-M237/M277)

	,			,	
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
1	CPWBF0139QSE1	BA	N	Е	SPF interface PWB unit
2	XHBSE30P08000	AA		С	Screw(3×8)
3	DHAi-0382QSZZ	BA	N	С	SPF interface harness
4	LPLTM0111QSZZ	AC		С	Reinforce plate earth
5	RPLU-0011QSZ1	AQ		В	Gate solenoid
6	P S P O - 0 0 2 3 Q S Z Z	AB		С	Sound proof Sponge
7	PSPŌ-0004QSZZ	AB		С	Delivery gate sponge
8	RCORF0026FCZZ	AL		С	Core(TRC-16813)
9		AD	N	С	Delivery gate spring
10	MLEVP0036QSZZ	AD		С	Delivery gate lever
11	MLEVF0093QSZZ	AE	N	С	Pressure release lever
12	XBBSD30P05000	AA		C	Screw(3×5)
		AE	N	C	Paper exit sensor harness
14		AC		Č	Delivery sensor ACT spring
15	VHPGP1S73P+-1	AF		В	Photo sensor(GP1S73P)
		AC	N	C	Delivery sensor ACT lever
	XRESP20-04000	AA		Č	E type ring
	NROLPOOTIQSZZ	AD		В	Delivery roller
		AB		C	Sponge
		AB		C	Sound proof sheet
21	NSFTZ0013QSZZ	AF		C	Delivery shaft
		AC		C	Sound proof Sponge
	LHLDZ0101QSZZ	AE	N	C	Pressure release holder
		AC	N	C	Delivery spring
25	LPiNS0327FCZZ	AC	14	C	SP pin(2×10)
	NSFTZ0072QSZZ	AP	N	C	Pressure release shaft
27	XRESP50-06000	AA	14	C	E type ring
28	NBRGM0501FCZZ	AB		C	Metal D
29	NSFTZ0009QSZZ	AE		C	Transport shaft
30	NROLP0010QSZZ	AD		В	Transport roller
	MSPRP0306QSZZ	AC	N	С	Spring
32	LPLTM0316QSZZ	AH	N	C	Base tray reinforce plate
	XEBSE30P08000	AA	IN	C	Screw(3×8)
34		AC	N	C	Earth spring
35	MSPRP0123QSZZ	AD	IN	C	
			N I	C	Transport spring
		AC	N		Transport earth spring
37	PSHEZ0436QSZZ	AD	N	00	Sheet
38	PSHEZ0069QSZZ	AE		00	Base tray sheet
40	LPLTP0117QSZZ	AM		С	Delivery gate
	NBRGP0041GCZZ	AD		С	Bearing
42	PRNGP0090FCZZ	AA		С	Ring(E5)
	LSŌU-0037QSZZ	BE	N	С	Base tray
501	CSŌU-0037RS51	BQ	N	Е	Base tray unit(Include Block 4-501)

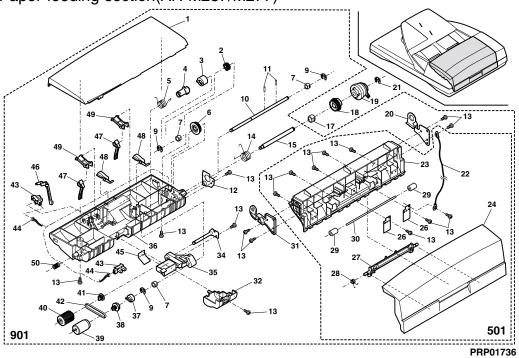
5 RSPF Exteriors 2(AR-M237/M277)



6 RSPF Paper feeding section(AR-M237/M277)

NO.	PARTS CODE	PRICE RANK		PART RANK	DESCRIPTION
1	GCAB-0076QSZZ	AP	N	D	Open and shut exterior
2	NGERH0166QSZZ	AC	N	С	Paper feed shaft gear(20T)
3	PCLC-0316FCZ1	AR		В	Torque limiter
	MLNKP0001QSZZ	AD	N	С	Pickup link
5	MSPRD0309QSZZ	AC	N	С	Pickup arm spring
6	NGERH0167QSZZ	AD	N	С	Paper feeding drive gear(32T)
7	NBRGM0096FCZ1	AC		С	Bearing
	XRESP50-06000	AA		С	E type ring
	NSFTB0075QSZZ	AF	N	С	Paper feed roller shaft
11	XPSSP20-07000	AA		С	Spring pin(\phi2-7)
12	LPLTM0318QSZZ	AC	N	С	Paper feeding earth plate
	XEBSE30P08000	AA		С	Screw(3×8)
	MSPRD0314QSZZ	AD	N	С	JAM release spring R
15	NSFTZ0074QSZZ	AF	N	С	PF roller shaft
	NBRGC0018QSZZ	AD		С	Bearing
	NPLYZ0033QSZZ	AD	N	В	Coupling pulley(39P)
	PCLC-0017QSZZ	AT	N	В	SPF paper feed clutch
20	MARMM0047QSZZ	AE	N	С	U-turn PG arm R
21	LSTPP0016QSZZ	AC	N	С	Stopper
22	DHAi-0390QSZZ	AC	N	С	U-turn earth harness
23	PGiDM0105QSZZ	AQ	N	С	U-turn guide
24	GCAB-0077QSZZ	AQ	N	D	U-turn PG exterior
26	MSPRP0311QSZZ	AC	N	С	PS spring
27	PTME-0029QSZZ	AE	N	С	U-turn PG lock pawl
28	MSPRD0310QSZZ	AC	N	С	U-turn PG lock spring
29	NRŌLP0010QSZZ	AD		В	Transport roller
	NSFTZ0009QSZZ	AE		С	Transport shaft
31	MARMP0046QSZZ	AD	N	С	U-turn PG arm F
32	PCŌVP0094QSZZ	AD	N	С	Maintenance cover
34	CSFTB0073QS01	AF	N	Е	Pickup roller shaft ASSY'
35	MARMP0044QSZZ	AF	N	C	Pickup arm
36	LFRM-0069QSZZ	AQ	N	С	Paper feeding frame
37	NCPL-0049FCBZ	AT		O	Coupling
38	NPLYZ0035QSZZ	AD	N	В	Paper feeding roller pulley(16P)
39	NRŌLR1311FCZZ	AN		В	Paper feed separation roller
40	NRŌLR1312FCZZ	AN		В	Pickup roller
41	NPLYZ0034QSZZ	AD	N	В	Pick up roller pulley(16P)
42	NBLTT0033QSZZ	AF	N	В	Drive belt
43	VHPGP1S73P+-1	AF		В	Photo sensor(GP1S73P)
44	DHAi-0387QSZZ	AH	N	С	PFUN harness
46	MLEVP0097QSZZ	AC	N	С	Original detect actuator
47	LSTPP0015QSZZ	AC	N	С	Stopper
48	MLEVP0096QSZZ	AC	N	С	Stopper release lever
49	MARMP0045QSZZ	AC	N	С	Stopper arm
50	MSPRD0313QSZZ	AC	N	С	JAM release spring F
501	CCAB-0077RS51	AZ	N	E	U-turn PG uint
	(Unit)				
901	CFRM-0069RS51	BK	N	Е	Paper feeding unit

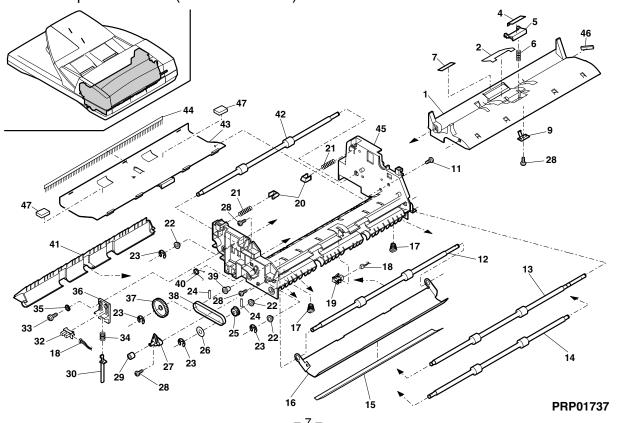
6 RSPF Paper feeding section(AR-M237/M277)



7 RSPF Transport section 1(AR-M237/M277)

	•		`		,
NO.	PARTS CODE	PRICE RANK		PART RANK	DESCRIPTION
1		AP	N	С	Paper feeding guide
2	PSHEZ0452QSZZ	AF	N	С	Front separate sheet
	PSHEZ0423QSZZ	AP	Ν	С	Separate sheet
	LPLTP0328QSZZ	AC	N	С	SPF separate plate
7	PSHEZ0451QSZZ	AC	N	С	Sound proof sheet
9		AD	N	С	Silence plate
	XHBSE30P08000	AA		С	Screw(3×8)
	NRŌLR0096QSZZ	AR	N	В	Transport roller
	NRŌLR0094QSZZ	AR	Ν	В	PS roller
	NRŌLR0095QSZZ	AR	N	В	Read roller
	PSHEZ0415QSZZ	AE	Ν	С	White sheet
	LPLTM0325QSZZ	AH	Ν	С	Transport plate
	MSPRC0063QSZZ	AB		С	Delivery paper guide spring
		AR	Z	С	RSPF harness
	RDTCT0006QSZZ	AL		В	Inlet detect sensor
20	PTME-0030QSZZ	AC	Z	С	Open and shut lock pawl
22	NBRGM0501FCZZ	AB		С	Metal D
	XRESP50-06000	AA		С	E type ring
	XPSSP20-09000	AA		С	Spring pin(\(\phi 2-9\)
25	NPLYZ0019QSZZ	AE		В	PS pulley
	PSHEP3029FCZZ	AA		С	Flange sheet DUP2
		AC	N	С	Tension holder F
28	XEBSE30P08000	AA		O	Screw(3×8)
	NKŌM-0007QSZZ	AC	Ν	O	Tension roller
30	MLEVP0095QSZZ	AD	N	С	Book sensor actuator
	VHPGP1S73P+-1	AF		В	Photo sensor(GP1S73P)
33	XEBSE40P14000	AA		С	Screw(4×14)
34	MSPRC0153QSZZ	AB		С	Book sensor spring
35	XWVSD40-05000	AA		С	Washer
36	LPLTP0131QSZZ	AD		С	Book sensor attachment plate
37	JKNBZ0009QSZZ	AE	N	D	JAM release knob(24P)
38	NBLTT0036QSZZ	AF	N	В	Belt(B79MXL4.0)
39		AC		С	Bearing
40	MSPRD0316QSZZ	AC	Ν	С	Tension spring F
41	LPLTP0324QSZZ	AH	N	С	Reverse gate plate
42	NROLR0097QSZZ	AR	N	В	Delivery roller
43	LPLTM0326QSZZ	AM	N	С	Paper feeding PG reinforce plate
44	PBRSS0008QSZ1	AH		В	Discharge brush
45	PGiDM0106QSZZ	AS	N	С	Transport R guide
46	PSHEZ0454QSZZ	AB	N	С	PF PG cushion R
47	PSHEZ0455QSZZ	AD	N	С	PF PG sound proof cushion
501	CG i DM 0 1 0 6 R S 5 1	BL	N	Е	SPF Transport unit(Include Block 8-501, Without No.9,10,18)
-					

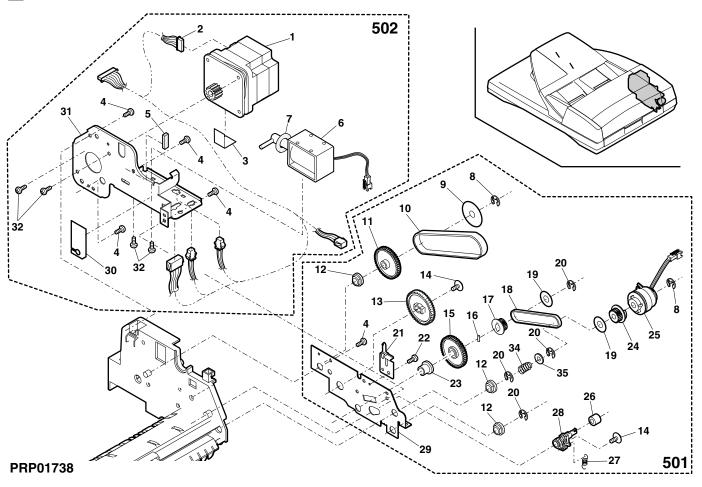
7 RSPF Transport section 1(AR-M237/M277)



8 RSPF Transport section 2(AR-M237/M277)

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
1	RMŌTS0043QSZZ	BG	N	В	SPF motor
2	DHA i - 0 3 8 4 Q S Z Z	AR	N	С	RSPF harness
3	PTPE-0018QSZZ	AC		С	Motor earth tape
4	XEBSE30P08000	AA		С	Screw(3×8)
6	RPLU-0015QSZ1	AR		В	Pressure release solenoid
7	PSPO-0022QSZZ	AB		С	Sound proof Sponge
8	XRESP40-06000	AA		С	E type ring
9	PSHEZ0414QSZZ	AB	N	С	Flange sheet
10	NBLTT0034QSZZ	AF	N	В	Belt(48S2M244)
11	NGERH0170QSZZ	AD	N	С	Gear(48T/43P)
12	NBRGM0501FCZZ	AB		С	Metal D
13	NGERH0116QSZ1	AD		С	Gear(48T/25P)
14	XEPSD30P08X00	AA		С	Screw(3×8X)
15	NGERH0117QSZZ	AK		С	Gear(48T)
16	XPSSP20-09000	AA		С	Spring pin(\(\phi 2-9\)
17	NPLYZ0019QSZZ	AE		В	PS pulley
18	NBLTT0035QSZZ	AE	N	В	Belt(B86MXL4.0)
19	PSHEP3029FCZZ	AA		С	Flange sheet DUP2
20	XRESP50-06000	AA		С	E type ring
21	MSPRP0312QSZZ	AD	N	С	U-turn earth spring
22	XHBSE30P08000	AA		С	Screw(3×8)
23	NBRGC0017QSZZ	AC		С	Bearing
	NPLYZ0018QSZZ	AE		В	PS coupling pulley
	PCLC-0018QSZZ	AT	N	В	PS clutch
26	NKŌM-0007QSZZ	AC	N	С	Tension roller
27	MSPRT0317QSZZ	AC	N	O	Tension spring R
	LHLDZ0103QSZZ	AC	N	C	Tension holder R
	LPLTM0322QSZZ	AF	N	С	Transport earth plate
		AG	N	C	Motor attachment plate
32	XBBSD30P05000	AA		С	Screw(3×5)
34	MSPRC0346QSZZ	AC	N	С	PS Brake spring
501	CG i DM 0 1 0 6 R S 5 1	BL	N	Е	SPF Transport unit(Include Block 7-501)
502	CPLTM0323RS51	AY	N	Е	Drive unit(Without No.4)

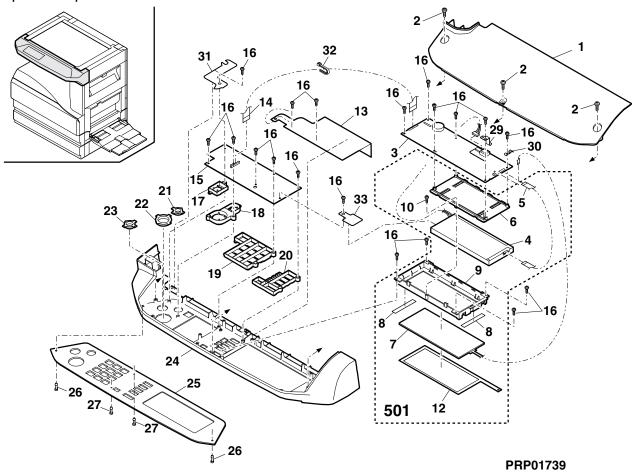
8 RSPF Transport section 2(AR-M237/M277)



9 Operation panel unit

NO.	PARTS CODE	PRICE RANK		PART RANK	DESCRIPTION
1	GCOV-0057QSZZ	AT	N	D	Operation panel cover
2		AA	IN	C	Screw(4×10)
	CPWBN0146QSE2	BU	N	E	OPU PWB (U.S.A,Other Countries)
3		CB	IN	E	LCD module (0.5.A,Other Countries)
4	V V L L M 0 6 5 H B 1 - 1 D H A i - 0 3 6 1 Q S Z Z	AE	N	C	LCD M harness
5	PCOVP0095QSZZ	AG	N	C	LCD cover
6 7		BC	N N	D	
	HPNLH0030QSZZ				Touch panel (A126)
8	PTPE-0052QSZZ	AA	N	С	Touch panel fixing tape
9	LHLDZ0105QSZZ	AG	N	С	LCD holder
10		AA		С	Screw(3×8)
12		AL	N	С	Anti static electricity sheet
		AE	N	С	PWB protect sheet
14		AD	N	С	Key PWB harness
15	CPWBF0145QSE1	AX	N	Е	KEY PWB
16	XEBSE30P08000	AA		С	Screw(3×8)
17	CBTN-0069QS02	AF	N	С	CA key
18		AF	N	С	Start key AS
19	CBTN-0070QS01	AN	N	С	Ten key
	CBTN-0071QS01	AM	N	С	Mode key AS (U.S.A,Other Countries)
20	CBTN-0071QS02	AM	N	С	Mode key AS [No FAX] (Algeria, Iran, Egypt, Syria, Tunisa, Nigeria, West Africa, Morocco, Jordan, Lebanon, Special Country, Brazil, LAG2, 4)
21	CFiLW0284FC02	AF	N	D	C key smoke AS
22	CF i L W 0 2 8 2 F C 0 2	AK	N	D	Copy key smoke AS
23	CFiLW0283FC02	AH	N	D	CA key smoke AS
24	GCAB-0086QSZZ	AV	N	D	Operation panel exterior
0.5	CPNLH0029QS05	AY	N	D	Main panel (Except AR-M276/M236 Germany)
25	CPNLH0029QS06	AY	N	D	Main panel (AR-M276/M236 Germany)
26	LPiNS0014QSCZ	AF		С	Fixing pin D
27	LPiNS0014QSBZ	AF		С	Fixing pin E
29	LPLTM0346QSZZ	AC	N	С	LCD earth plate
30	LPLTM0331QSZZ	AC	N	С	PWB earth plate
32	RCORF0002QSZZ	AE		Č	Core(HF57SH35*1)
501	CHLDZ0105RS51	AU	N	E	LCD unit
	(Unit)				
901	CPNLH0029RS55	BY	N	D	Operation panel (U.S.A,Other Countries)
					,

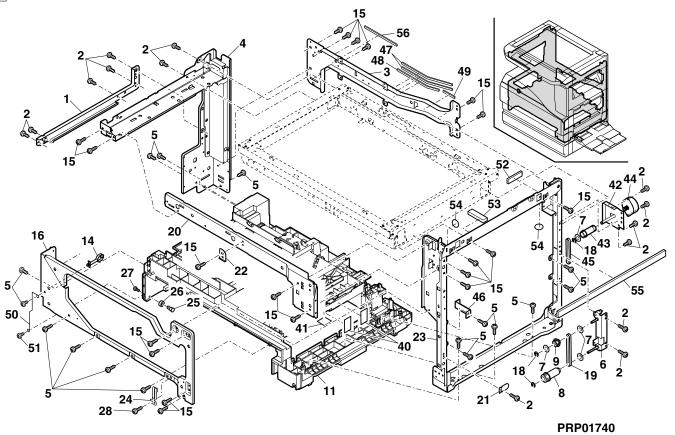
9 Operation panel unit



10 Frame section

NO.	PARTS CODE	PRICE RANK		PART RANK	DESCRIPTION
1	LPLTM0163QSZZ	AK		С	Left reinforce plate lower
2	XHBSE30P08000	AA		С	Screw(3×8)
3	LPLTM0232QSZ1	AU	N	С	Frame support plate R
4	CFRM-0043QS02	AX		D	Corner frame RL
5	XEBSD40P10000	AA		С	Screw(3×10)
6	CPLTM0168QS02	AK	N	С	DUP drive idle plate
7	PSHEZ0065QSZZ	AB		С	Pully flange sheet
8	NGERH0173QSZZ	AD	N	С	DUP gear
9	NPLYZ0036QSZZ	AD	N	С	DUP pulley gear
11	LDAi-0023QSZB	BH	N	D	Base plate
	LHLDW1061FCZZ	AB		С	Harness holder(HL-18-0)
15	XHBSE40P10000	AA		С	Screw(4×10)
16	LPLTM0333QSZZ	AX	N	С	Frame support plate F
	XRESP40-06000	AA		С	E type ring
	NBLTT0026QSZZ	AF		В	DUP drive belt
20	LPLTM0165QSZ1	AS	N	С	Front support plate
21	PCOVP0066QSZZ	AC		D	Interlock cover
22	LPLTM0166QSZZ	AC		С	Front support adjusting plate
23	CFRM-0044QS02	BB		С	Right frame unit
24	LPLTM0251QSZZ	AE		С	PS earth plate
25	NSFTZ0048QSZZ	AG		С	Cassette collar shaft
26	NKŌM-0005QSZZ	AC		С	Cassette guide collar
27	XBPSD30P08KS0	AA		С	Screw(3×8KS)
28	XHBSE30P06000	AA		С	Screw(3×6)
40	PSHEZ0333QSZZ	AC		С	PS front sheet
41	PSHEZ0325QSZZ	AB		С	Frame lower mylar
42	CPLTM0342QS01	AH	N	С	DU motor fixing plate ASSY'
43	NGERH0174QSZZ	AD	N	С	DUP drive gear
44	RMŌTS0045QSZZ	AR	N	В	DUP 2 motor
45	NBLTT0038QSZZ	AF	N	В	DUP drive belt TL
46	LPLTM0332QSZZ	AE	N	С	Fusing unit earth plate
47	PGSK-0021QSZZ	AQ		С	Frame rainforce cushion A (Taiwan)
	PGSK-0022QSZZ	AP		С	Frame rainforce cushion B (Taiwan)
49	PGSK-0023QSZZ	AH		С	Frame rainforce cushion C (Taiwan)
50	MSPRD0276QSZZ	AS		С	Front earth spring (Taiwan)
51	XEBSE40P12000	AA		С	Screw(4×12) (Taiwan)
52	PMLT-0092QSZZ	AB	N	С	Frame RR cushion
53	PMLT-0089QSZZ	AC	N	С	Right frame cushion F
55	PMLT-0091QSZZ	AD	N	С	Right frame cushion A
56	PGSK-0026QSZZ	AQ	N	С	OP holder cushion

10 Frame section

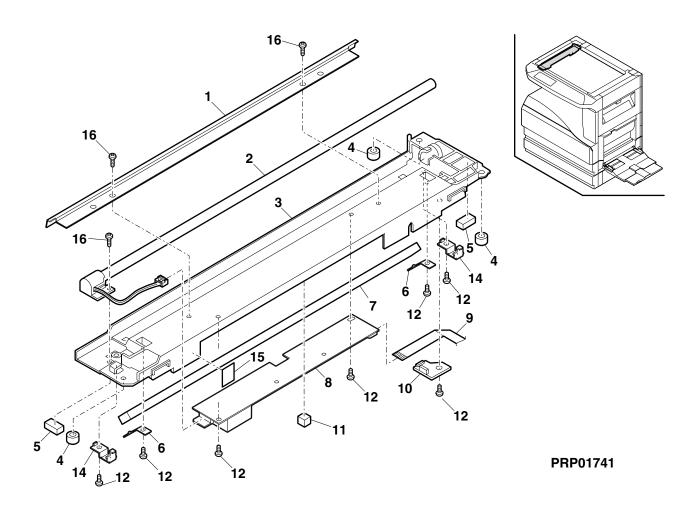


- 10 -

11 Lump unit

	NO.	PARTS CODE	PRICE RANK	PART RANK	DESCRIPTION
ſ	1	PREFL0004QSZZ	AP	D	Riflector
\triangle	2	RLMPU0012QSZZ	BG	В	Lump
Ī	3	LHLDZ0047QSZ2	AW	С	Base
I	4	MSL i - 0 1 3 8 F C Z Z	AC	С	Slider
	5		AE	O	Protection cushion
I	6	MSPRP0145QSZZ	AF	С	Spring
	7	PM i R - 0 0 0 9 Q S Z Z	AS	В	1st mirror
	8	DUNTK0034QSZZ	BC	O	Inverter unit
	9	DHA i - 0 2 0 0 Q S Z Z	AS	O	CL harness
1	10		AF	D	Harness fixing
	11	PCUSF0334FCZZ	AP	O	Cushion
Ī	12	XEPSD30P06000	AA	С	Screw(3×6)
Ī	14	LPLTM4715FCZ1	AF	С	Wire fixing plate
Ī	15	TCAUH0933FCZZ	AB	С	High temperature caution label
I	16	XEPSD40P06000	AA	С	Screw(4×6)
Ī		(Unit)			
\triangle	901	CREFL0004QS33	BL	E	Copy lamp unit
Ī					
I					
I	·				
Ι					

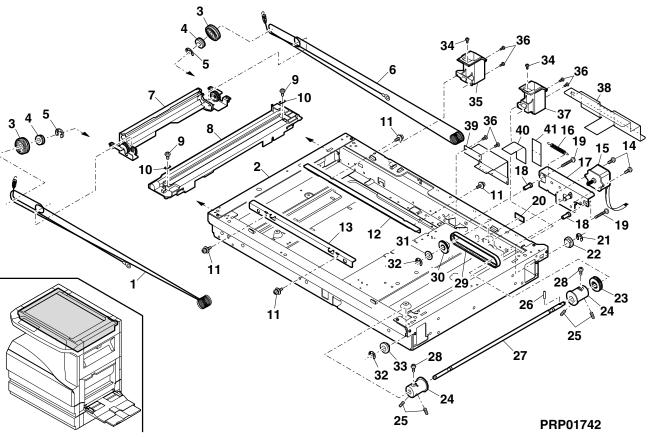
11 Lump unit



12 Optical frame 1

	NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
	1	PWiR-0006QSZZ	AQ		С	MB wire F
	2	CDA i U 0 0 1 2 Q S 1 1	BH	N	D	Optical frame
	3	NPLYZ0016QSZZ	AF		С	Pulley
	4	NPLYZ0006QSZZ	AD		С	L pulley
	5	XRESP40-05000	AA		С	E type ring
	6	PWiR-0005QSZ1	AQ		С	MB wire R
A	8	CREFL0004QS33	BL		Е	Copy lamp unit
	9		AA		С	Screw(4×6K)
	10	LHLDZ0056QSZZ	AC		С	Wire holder
	11	L X - B Z 0 0 0 4 Q S Z Z	AB		С	Screw
		LRALM0007QSZ1	AG		С	MB-B rail R
		LRALM0006QSZZ	AG		С	MB-B rail F
		XBPSD30P05K00	AA		С	Screw(3×5K)
		RMOTP0027QSZZ	BG		В	Mirror motor
	16	MSPRC0040QSZZ	AB		С	MB drive spring
	17		AK		С	Mirror motor fixing plate
		PGUMS0002QSZZ	AL		С	Protection rubber
		XBPSD40P16KS0	AA		С	Screw(4×16KS)
	20	PCUSG0190FCZ1	AB		С	Table glass cushion
	21	XRESP50-06000	AA		С	E type ring
	22	NBRGP0012QSZZ	AC		С	Winder bearing F
	23		AG		С	Winder drive shaft pulley
	24	NPLYZ0003QSZZ	AM		С	Winder pulley
	25	L X - B Z 0 0 4 9 F C Z Z	AB		С	Screw
	26		AB		С	Spring pin(\phi3-12)
	27	NSFTZ0028QSZ1	AS	N	С	Winder drive shaft
	28	L X - B Z 0 3 2 4 F C Z Z	AA		С	Screw
	29	NBLTT0002QSZZ	AH		В	Winder drive belt
	30	NGERH0027QSZZ	AH		С	Mirror motor idle gear
	31	L X - W Z 0 1 1 9 F C Z Z	AA		С	Washer
	32	XRESP70-08000	AA		С	E type ring
	33	NBRGP0011QSZZ	AC		С	Winder bearing F
	34		AA		С	Screw
		PGiDM0108QSZZ	AH	N	С	Hinge guide L
	36	XHBSE30P08000	AA		С	Screw(3×8)
	37	PGiDM0109QSZZ	AH	N	С	Hinge guide R
	38	PSHEM0342QSZZ	AU		С	MCU earth sheet (Taiwan)
	39	PGiDH0095QSZZ	AH		С	CCD harness guide (Taiwan)
		PTPE-0036QSZZ	AF		С	CCD harness fixing tape (Taiwan)
	41	PTPE-0032QSZZ	AK		С	CCD cable shield tape (Taiwan)

12 Optical frame 1



13 Optical frame 2

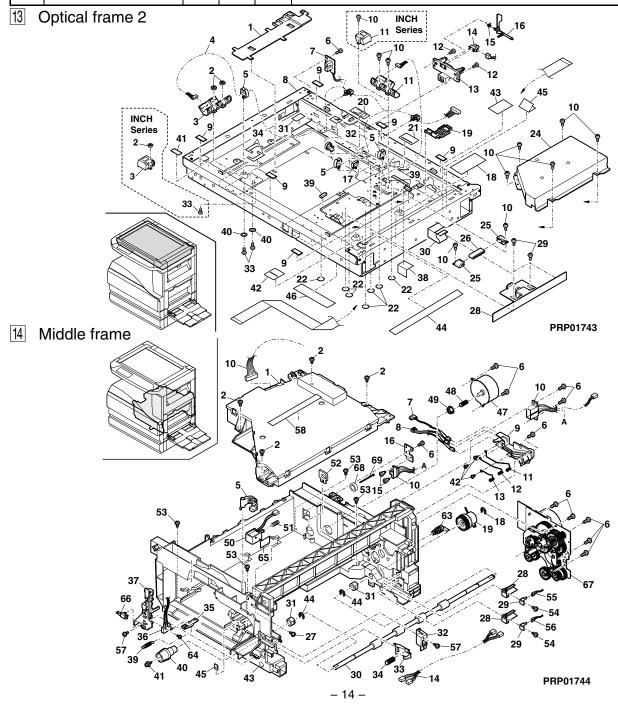
NO.	PARTS CODE	PRICE RANK		PART RANK	DESCRIPTION
1	PCOVP0075QSZZ	AE		D	Harness cover
2	XNESD30-24000	AA		С	Nut(M3)
3	VHPGP2D07//-1	BA		В	Photo senser(GP2D07) [AB Series]
3	VHPGP2D03//-1	BA		В	Photo senser(GP2D03) [Inch Series]
4	DHA i - 0 3 4 6 Q S Z Z	AP	N	С	Optical sensor harness [AB Series]
·	DHAi-0347QSZZ	AN	N	С	Optical sensor harness [Inch Series]
5	LHLDW1009ACZZ	AA		С	Clamp
6	XBBSF30P08000	AA		С	Screw(3×8)
7	CPWBF0083QSE5	AU		Е	Sensor PWB
8	CDA i U 0 0 1 2 Q S 1 1	BH	N	D	Optical frame
9	PCUSG0190FCZ1	AB		С	Table glass cushion
10	XHBSD30P06000	AA		С	Screw(3×6)
11	RSNSZ0001QSZZ	BA		В	Photo senser(GP2D071) [AB Series]
- ' '	VHPGP2D032/-1	BA		В	Photo senser(GP2D032) [Inch Series]
12	XBPSD30P08X00	AA		С	Screw(3×8)
13	LPLTP0230QSZZ	AF		С	Open/close sensor fixing plate
14	VHPGP1S73P+-1	AF		В	Photo sensor(GP1S73P)
15	MSPRD0232QSZZ	AB		С	Return spring
16	MLEVP0077QSZZ	AC		С	Open/Close actuator
17	LCRA-0002QSZZ	AC		С	Mini clump
18	TLABH0461QSZZ	AG		С	Clean caution label (U.S.A,Canada)
19	LHLDZ0104QSZZ	AD	N	С	CL lead holder
20	PSHEZ0218QSZZ	AC		С	Edge protect mylar A
21	PSHEZ0217QSZZ	AC		С	CCD harness protect mylar B
22	PSHEZ0448QSZZ	AA	N	С	Optical base plate bottom myler B
24	PCASZ0010QSZZ	AL		D	Durk box
25	L H L D Z 7 0 2 1 X C Z Z	AD		С	Holder(FRH-12)
26	RCŌRF0002QSZZ	AE		С	Core(HF57SH35*1)
28	CLNS-0003RS54	BQ	N	Е	Lens unit
29	L X - B Z 0 0 0 4 Q S Z Z	AB		С	Screw
30	DHA i - 0 3 4 5 Q S Z Z	AG	N	С	CCD harness
31	PSHEZ0108QSZZ	AC		С	Optical base plate bottom myler A
32	PSHEZ0219QSZZ	AC		С	Edge protect mylar B
33	L X - B Z 0 0 3 1 G C Z Z	AB		С	Screw
34	PSHEZ0254QSZZ	AC		С	Optical bottom mylar
38	PSHEZ0273QSZZ	AB		С	CCD harness protect mylar A
39	PGSK-0008QSZZ	AF		С	Gasket
40	XWHSD40-08100	AA		С	Washer
41	PMLT-0094QSZZ	AC	N	С	Cushion ORG
43	PSHEZ0420QSZZ	AC		С	OP harness protect mylar
44	PTPE-0051QSZZ	AC		С	OP harness protect tape
45	PSHEZ0426QSZZ	AB		С	OP harness protect mylar B

14 Middle frame

	initiale name									
NO.	PARTS CODE	PRICE RANK		PART RANK	DESCRIPTION					
1	DUNTK0384RSZZ	BW	N	Е	LSU unit					
2	XEPSD30P14X00	AA		С	Screw(3x14X)					
5	MARMP0025QSZZ	AD		С	Separator pawl arm					
6	XEBSD30P10000	AA		С	Screw(3×10)					
7	CHAi-0356RS51	AL	N	С	MC harness					
8	CHAi-0357RS51	AL	Ν	С	GBMCFB harness					
9	LHLDZ0057QSZZ	AH		С	High voltage terminal holder A					
10	DHAi-0373QSZZ	AS	N	С	DV/LSU interface harness					
11	MSPRD0190QSZ1	AD		С	High voltage terminal saw teeth					
12	MSPRD0191QSZ1	AD		С	High voltage terminal grid L					
13	MSPRD0192QSZ1	AD		С	High voltage terminal case L					
14	DHAi-0353QSZZ	AH	Ν	С	ILSW I/F harness 2					
15	L X - B Z 0 0 2 0 Q S Z Z	AB		С	Screw					
16	LPLTM0149QSZZ	AD		С	Connector fixing plate					
18	XRESP50-06000	AA		С	E type ring					
19	PCLC-0006QSZZ	AU		В	PS clutch					
27	XBBSD30P05000	AA		С	Screw(3×5)					
28	LHLDZ0085QSZZ	AE		С	TR terminal holder					
29	LPLTM0248QSZZ	AE		С	TR terminal plate					
30	NRŌLR0089QSZZ	AQ		С	PS roller					
31	NBRGC0018QSZZ	AD		С	Bearing					
32	PCOVP0062QSZZ	AD		D	ILSW cover					
33	LSTPP0010QSZZ	AD		С	Right door stopper					
34	MSPRC0220QSZZ	AB		С	Stopper spring					
35	MLEVP0071QSZZ	AD		С	ILSW lever					
36	CSW-M0007RS56	AP	N	В	Inter lock switch					
37	L H L D Z 0 0 6 5 Q S Z 1	AF		С	ILSW holder					
39	MSPRT0221QSZZ	AB		С	ILSW spring					
40	JKNBZ0006QSZZ	AD	,	С	PS knob					
41	XBPSD30P08KS0	AA	,	С	Screw(3×8KS)					
42	XBPSC30P06ES0	AA		С	Screw(3×6ES)					
43	LFRM-0037QSZ2	BA	N	D	Middle frame					
44	XRESP60-08000	AA		С	E type ring					

Middle frame

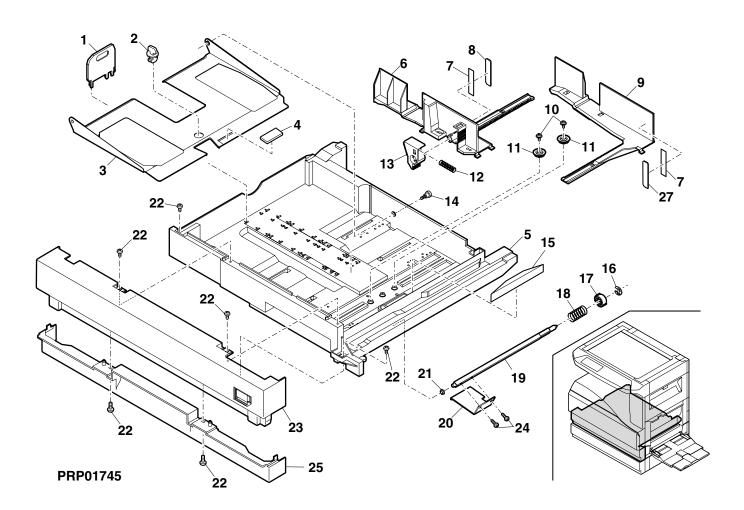
NO.	PARTS CODE	PRICE RANK		PART RANK	DESCRIPTION
45	LPLTM0194QSZZ	AC		С	DV fixing plate
47	RMOTD0023QSZZ	AZ		В	Toner motor
48	MSPRC0195QSZZ	AB		С	Hopper spring
49	NCPL-0011QSZZ	AC		С	Hopper cupring
50	RPLU-0024QSZZ	AM		В	Pawl solenoid
51	MSPRC1318FCZ1	AA		С	Spring B
52	LPiNS0300FCZZ	AD		С	DV guide pin (U.S.A,Other countries)
52	LPiNS0301FCZZ	AD		С	DV guide pin (Europe,Australia,New Zealand)
53		AA		С	Screw(3×10)
54	XEBSD30P06000	AA		С	Screw(3×6)
55	DHA i - 0 3 5 4 Q S Z Z	AG	N	С	TC harness
56	DHA i - 0 3 5 5 Q S Z Z	AG	N	С	BC harness
57	XEBSD30P10000	AA		С	Screw(3×10)
58	TCAUH0007QSZZ	AD		С	Laser caution laber
63	MSPRC0271QSZZ	AC		С	Earth Spring
64	XEPSD23P12000	AA		С	Screw(3×12)
65	PSHEZ0394QSZZ	AB		С	Drum solenoid silence material
66	QSW-B0017QSZZ	AF		В	Tray detect switch
67	CPLTM0160RS53	BN	N	Е	Drive unit
68	RCŌRF0013QSZZ	AG		С	LSU harness core (Taiwan)
69	LBNDJ0013FCZ1	AE		С	Cable band (Taiwan)



550 cassette unit

NO.	PARTS CODE	PRICE	NEW	PART	DESCRIPTION
		RANK	MARK		
1	LPLTP0159QSZZ	AD		С	Cassette rear side plate
2	LHLDW1226FCZZ	AB		С	Turn fastener
3		AR		O	Rotetion plate
4	PSHEZ0274QSZZ	AC		С	Rotation plate sheet
5	GCASP0006QSZZ	BA	N	D	550 cassette
6	PG i DM 0 0 7 0 QSZ 1	AM		O	Guide F
7	PTPE-0021QSZZ	AD		С	GID tape
8	LPLTM0181QSZ1	AB		O	Side plate guide F
9	PG i DM 0 0 7 1 QSZZ	AL		С	Guide R
10	L X - B Z 0 8 8 4 F C Z Z	AB		O	Screw
11	NGERH0193FCZZ	AB		С	UC manual feed gear
12	MSPRC2631FCZZ	AC		С	Fusing pressure spring
13	MLEVP0755FCZ1	AE		С	Side plate F lever
14	LX-BZ0833FCZZ	AC		С	Screw
15	PSHEZ0244QSZ2	AC		С	Cassette mylar
16	XRESP70-08000	AA		С	E type ring
17	NGERH0108QSZZ	AD		С	Lift gear(22T)
18	MSPRC0210QSZZ	AC		С	Lift gear spring
19	NSFTZ0047QSZZ	AP		С	Lift shaft
20	LPLTM0180QSZ1	AE		С	Lift plate
21	NBRGP0041GCZZ	AD		С	Bearing
22	XEBSE40P10000	AA		С	Screw(4×10)
23	JHNDP0004QSZZ	AV	N	С	Body cassette panel
24	XBPSD40P08KS0	AA		С	Screw(4×8KS)
25	PCŌVP0096QSZZ	AN	N	С	Cassette panel line
27	LPLTM0277QSZZ	AC		С	Side plate guide R
	(Unit)				
901	CCASP0006RS51	BL	N	Е	550 cassette unit

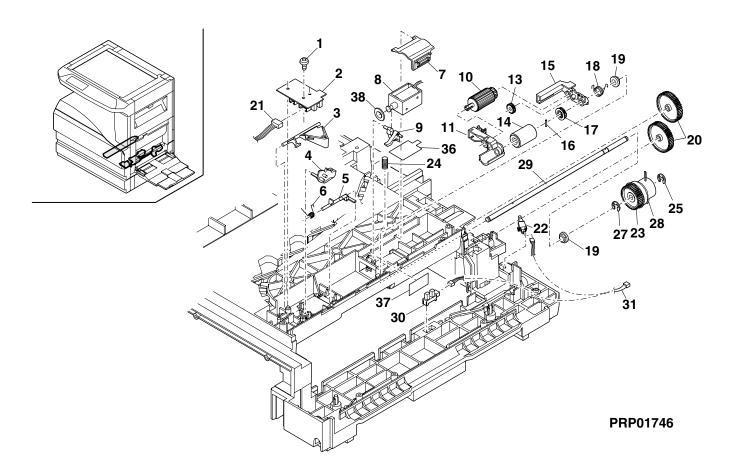
550 cassette unit



16 Paper feed section

NO.	PARTS CODE	PRICE RANK		PART RANK	DESCRIPTION
1	XEBSD30P10000	AA		С	Screw(4×10)
2	CPWBF0081QSE2	AP	N	Е	Cassette sensor PWB
3	MLEVP0064QSZZ	AD		С	Paper detect actuator
4	MLEVP0063QSZZ	AD		С	Upper limit detect actuator
5	MLEVP0056QSZZ	AC		С	P-IN actuator
6	MSPRD0201QSZZ	AC		С	P-IN actuator spring
7	PCŌVP0064QSZZ	AD		D	Solenoid cover
8	RPLU-0026QSZ1	AR		В	Paper feed solenoid
9	MARMP0026QSZZ	AD		С	Solenoid arm
10	NRŌLR0054QSZZ	AP		C	Pick up roller
11	MARMP0019QSZZ	AD		С	Pick up arm F
13	NGERH0990FCZZ	AB		С	Gear(16T)
	NRŌLR0055QSZ1	AR		C	Paper feed roller
	MARMP0021QSZZ	AD		С	Pick up arm R
	LPiN-0026MCZZ	AA		С	Spring pin(φ2-10)
	NGERH0107QSZZ	AD		С	Paper feed gear(20T)
	MSPRD0206QSZZ	AC		С	Pick up roller pressure spring
	NBRGC0100FCZ1	AC		С	Bearing 6
	NGERH0097QSZZ	AF		С	2nd joint gear
21	DHAi-0350QSZZ	AG	N	С	Cassette sensor harness
22	QSW-B0017QSZZ	AF		В	Tray detect switch
	NGERH0156QSZZ	AD		С	Paper feed clutch gear(42T)
24	MSPRC0209QSZ1	AC		O	Solenoid spring
25	XRESP40-06000	AA		O	E type ring
27	XRESP50-06000	AA		С	E type ring
28	PCLC-0012QSZZ	AS		В	Paper feed clutch(42T)
29	N S F T Z 0 0 4 3 Q S Z 1	AH		С	Paper feed roller shaft
30	VHPGP1S73P+-1	AF		В	Photo sensor(GP1S73P)
31	DHAi-0399QSZZ	AF	N	С	Manual paper feeding empty harness
	PSHEZ0391QSZZ	AC		С	Paper feed solenoid silence material A
37	PSHEZ0392QSZZ	AB		С	Paper feed solenoid silence material B
38	PSHEZ0393QSZZ	AA		С	Paper feed solenoid silence material C
	·				
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16 Paper feed section



17 Paper transfer section

NO.	PARTS CODE	PRICE RANK		PART RANK	DESCRIPTION
1	XEBSE40P12000	AA		С	Screw(4×12)
2		AP		D	Middle frame cover
	MSPRD0194QSZ1	AD		С	PS earth spring LP
4	MSPRC0291QSZZ	AC		С	PS pressure spring
5	NSFTZ0065QSZZ	AD		С	PS sub roller shaft
6	NKOM-0006QSZZ	AC		С	PS collar
7	PSHEZ0133QSZZ	AD		С	Paper feeding sheet
8	XEBSE40P10000	AA		С	Screw(4×10)
9	PGiDM0067QSZ1	AR		С	Base plate paper feed guide
10	MSPRD0233QSZ1	AC		С	MF actuator spring
11	MLEVP0023QSZZ	AE		С	MF sensor actuator
12	MLEVP0044QSZZ	AE		С	MF sensor actuator 2
13	LPLTP0348QSZZ	AC		С	Separation plate
14	MSPRC0301QSZZ	AD	N	С	Pressure plate spring
15	PFTA-0019QSZZ	AE	N	D	Pressure plate cover
16	XEBSD30P10000	AA		С	Screw(3×10)
17	PSHEZ0378QSZZ	AG		С	Separation sheet
18	LRALP0008QSZ1	AQ		С	Base plate rail
19	VHPGP1S73P+-1	AF		В	Photo sensor(GP1S73P)
20	DHAi-0398QSZZ	AE	N	С	Manual paper feeding PIN harness
21	MSPRD0202QSZZ	AB		С	Manual P-IN actuator spring
22	MLEVP0057QSZZ	AC		С	Manual paper feed P-IN actuator
23		AG		C	Separation sheet
24		AC		С	Separation plate
25		AD	N	D	Plate cover
26	MSPRC0270QSZZ	AB		С	Separation plate spring
27	NK OM - 0 0 0 5 Q S Z Z	AC		Č	Cassette quide collar
28	NSFTZ0048QSZZ	AG		C	Cassette collar shaft
29	XBPSD30P08KS0	AA		С	Screw(3×8KS)
31	XEBSD40P10000	AA		C	Screw(4×10)
33	PSHEZ0301QSZZ	AC		С	Rail R side mylar F
34	PSHEZ0302QSZZ	AC		C	Rail R side mylar R
35		AE		Č	Manual feed damper plate (Except AR-M276/M236 Taiwan,UAE)
	PSHEZ0322QSZZ	AD		C	Front separator sheet
37		AA		C	MF ACT cushion
38	LHLDZ0094QSZZ	AC		Č	PS presure holder
	MSPRC0292QSZZ	AC		Č	PS sub presure spring
40	MSPRD0287QSZZ	AC		Č	Paper feed assistance roller SP
41	NROLPOO87QSZZ	AD		Č	Paper feed assistance roller
42	NSFTZ0064QSZZ	AD		C	Paper feed assistance roller shaft
43	PSHEZ0314QSZ1	AF		C	Toner protect mylar
	LBRC-0012QSZZ	AD		C	Manual feed sub roller blacket
	NKOM-0009QSZZ	AC		C	Manual feed sub roller
	NSFTZ0064QSZZ	AD		C	Manual feed sub shaft
47	MSPRD0340QSZZ	AC	N	C	Manual feed sub roller spring
501	CG i DM 0 0 6 7 R S 5 1	AY	- · •	Ē	Base plate paper feed guide unit (Except AR-M276/M236 U.kingdom,Taiwan)
502	CCOVP0053RS53	AW		Ē	Middle frame cover unit
502	22211003011333	7.44			Initialio manto obvor unit
		1	1		1

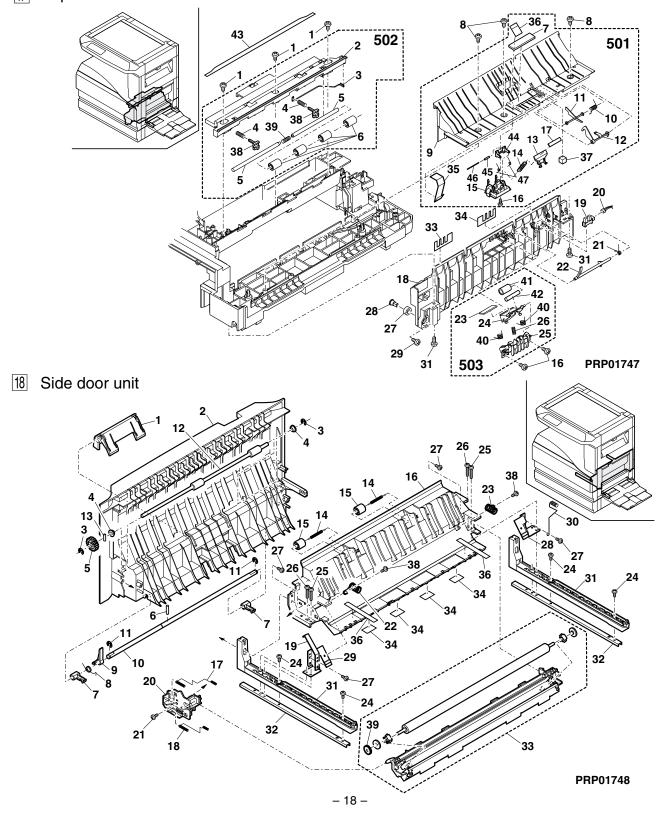
18 Side door unit

	of the deer thin									
NO.	PARTS CODE	PRICE RANK		PART RANK	DESCRIPTION					
1	MLEVP0058QSEZ	AD	N	С	Lock lever					
2	GDOR-0002QSZC	AY		D	Right door					
3	XRESP40-06000	AA		С	E type ring					
4	LBSHZ0303FCZZ	AC		С	M bushing C					
5	NGERH0074QSZZ	AD		С	DUP roller driving gear					
6	LPiNS0133FCZZ	AA		С	Pin(2×10)					
7	PTME-0020QSZ1	AC		С	Lock pawl					
8	MSPRD0222QSZZ	AC		C	Lock pawl spring					
9	MARMP0043QSZZ	AC		C	Lock pawl arm					
10	NSFTZ0055QSZ1	AN		С	Lock pawl shaft					
11	XRESP30-06000	AA		C	E type ring					
12	NRŌLP0036QSZZ	AP		O	DUP transport roller					
13	XPSSJ20-07000	AA		O	Spring pin					
15	NRŌLP1122FCZZ	AF		C	PS upper roller					
16	LFRM-0040QSZZ	AV		D	Right door inner					
17	MSPRC0349QSZZ	AD	Z	O	High voltage spring B					
18	MSPRC0348QSZZ	AD	Ν	O	High voltage spring A					
19	LPLTM0102QSZZ	AD		C	DUP roller eatrh plate					
20	LHLDZ0084QSZZ	AF		C	TR terminal interface holder					
21	XEBSE30P08000	AA		C	Screw(3×8)					
22	MSPRC0296QSZZ	AF		С	TR pressure spring R					
23	MSPRC0295QSZZ	AF		С	TR pressure spring F					
24	XHBSD30P10000	AA		С	Screw(3×10)					
25	XHBSD30P16000	AA		С	Screw(3×16)					
26	XHBSD30P14000	AA		С	Screw(3×14)					
27	XEBSD30P10000	AA		С	Screw(3×10)					
28	LPLTM0090QSZZ	AE		С	Inner reinforce plate F					
20	ET ETWOODOQOZZ	/\L		0	mile remove plate r					

18 Side door unit

NO.	PARTS CODE	PRICE RANK		PART RANK	DESCRIPTION
29	LPLTM0091QSZZ	AE		С	Inner reinforce plate R
30	MSPRD0205QSZZ	AE		С	TC grand spring
31	LRALP0004QSZ2	AH		С	Right door rail
34	PSHEZ0307QSZ1	AB		С	Right door mylar
36	PSHEZ0330QSZZ	AC		С	Right door DUP mylar
38	L X - B Z 0 0 3 2 Q S Z Z	AB		С	Screw
39	NGERH0163QSZ2	AG	N	С	TR Gear
	(Unit)				
901	CDŌR-0002RS58	BH	N	Е	Side door unit(Except No.33,39)
	_				

7 Paper transfer section

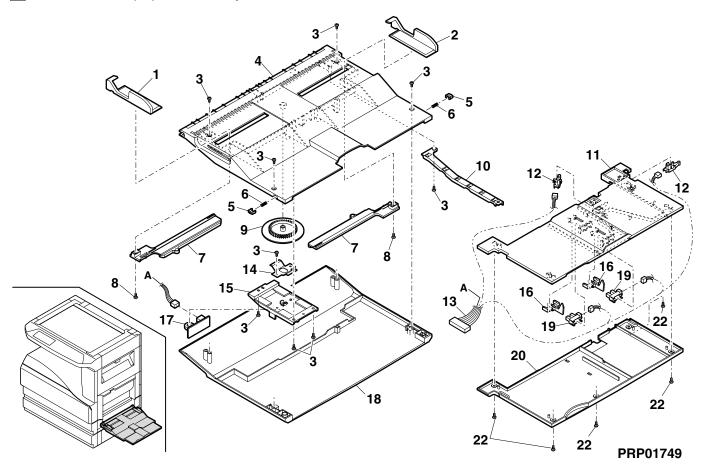


19 Multi manual paper feed tray unit

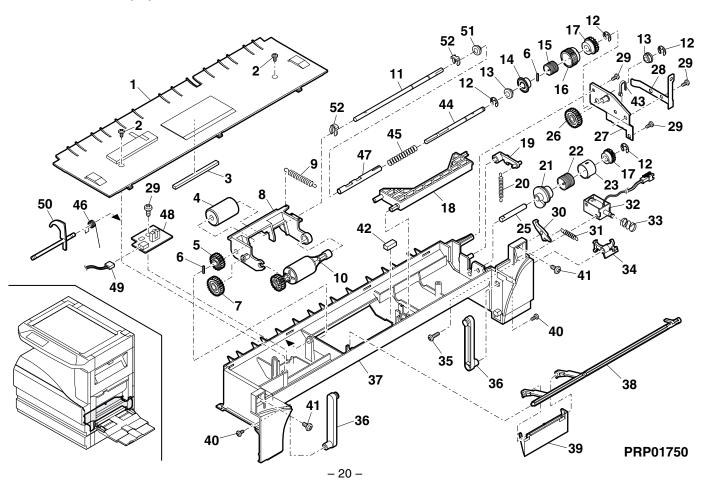
NO.	PARTS CODE	PRICE RANK		PART RANK	DESCRIPTION
1	PG i DM 0 0 7 5 Q S Z Z	AF		С	MB side guide F
2	PG i DM 0 0 7 6 Q S Z Z	AF		С	MB side guide R
3	XEBSE30P08000	AA		С	Screw(3×8)
4	LSOU-0024QSZB	AT	N	D	Manual paper feed tray 1 upper
5	PTME-0271FCZZ	AD		С	Tray lock pawl
6	MSPRC0250QSZZ	AC		С	Tray lock spring
7	NGERR0140QSZZ	AD		С	Width detect rack
8	XEPSD30P06X00	AA		С	Screw(3×6X)
9	NGERP1385FCZZ	AF		С	Width detect pinion
10	LHLDZ0066QSZZ	AD		С	Harness holder
11	L S Ō U - 0 0 2 6 Q S Z B	AU	N	D	Manual paper feed tray 2 upper
12	QSW-B0017QSZZ	AF		В	Tray detect switch
13	DHAi-0359QSZZ	AP	N	С	Manual paper feeding unit harness
14	MSPRP2830FCZZ	AA		С	Width detect spring
15	LPLTP0234QSZZ	AE		С	Width detect plate
16	MLEVP0035QSE1	AC		С	Original detect actuator
17	CPWBF0106QSE4	AP	N	Е	Manual paper feeding VR PWB unit
18	LSOU-0025QSZB	AS	N	D	Manual paper feed tray 1 lower
19	VHPGP1S73P+-1	AF		В	Photo sensor(GP1S73P)
20	LSŌU-0027QSZB	AT	N	D	Manual paper feed tray 2 lower
22	XEBSE30P06000	AA		С	Screw(3×6)
	(Unit)				
901	CSŌU-0024RS55	BK	N	Е	Manual paper feeding tray unit
	_				

20 Multi manual paper feed unit

20 N	/lulti manual paper	teea	unit		
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
1	PCŌVP0055QSZC	AL	N	D	Multi frame cover
2	XEBSE30P10000	AA		С	Screw(3×10)
3	PSHEZ0099QSZZ	AC		С	Protect sheet
4	N R Ō L R 0 9 2 2 F C Z 2	AR		С	Manual feed roller
5	NGERH0495FCZZ	AC		С	Gear(20T)
6	XPSSJ20-07000	AA		С	Spring pin
7	NGERH0061QSZZ	AD		С	Gear(24T)
8	MARMP0009QSZZ	AF		С	Roller arm
9	MSPRT0091QSZZ	AC		С	Roller arm spring
10	NRŌLR1267FCZ1	AH		С	Paper feeding rolor
12	XRESP40-06000	AA		С	E type ring
13	LBSHZ0303FCZZ	AC		С	M bushing C
14	LBŌSZ1508FCZZ	AG		С	Cam boss A2
15	MSPRC1315FCZ1	AD		С	Manual clutch spring A
16	PPiPP0109FCZZ	AB		С	Manual clutch sleeve pipe A
17	LBOSZ1510FCZZ	AF		С	Cam boss A1
18	MARMP0041QSZZ	AE		С	Cam transmission arm
19	MARMP0006QSZZ	AD		С	Arm
20	MSPRD0347QSZZ	AD	N	С	Stopper arm spring
21	MCAMP0003QSZZ	AD		С	Drive cam
22	MSPRC1316FCZ1	AE		С	MF clutch spring B
23	PPiPP0014QSZZ	AC		С	Cam clutch sleeve
25	NSFTZ0017QSZZ	AG		С	Manual feed cam shaft
26	NGERH0972FCZZ	AB		С	Gear(27T)
27	CPLTM0345QS01	AG	N	С	Paper feed plate
28	MSPRD0092QSZZ	AE		С	MF earth spring
29	XEBSD30P08000	AA		С	Screw(3×8)
30	PTME-0178FCZZ	AC		С	Manual paper feeding pawl A
31	MSPRC2175FCZZ	AA		С	Pawl A spring
32	RPLU-0028QSZZ	AM		В	Multi field solenoid
33	MSPRC1318FCZ1	AA		С	Spring B
34	PTME-0179FCZZ	AC		С	Manual paper feeding pawl B
35	XBBSD30P10000	AA		C	Screw(3×10)
36	MARMP0027QSZ1	AE	N.	O	Manual paper feed tray arm
37	LFRM-0048QSZC	AT	N	D	Multi frame
38 39	MARMP0008QSZZ LPLTP0056QSZ3	AH AD	-	C	Stopper arm Stopper plate
40	XEPSD30P06X00	AA		C	
40	XEBSD30P10000	AA	-	C	Screw(3×6X) Screw(3×10)
41	PSHEZ0241QSZZ	AB		C	Manual paper feed protection sheet
42	LBNDJ0013FCZ1	AE		C	Cable band
45	MSPRD0302QSZZ	AC		C	
45	MSPRD0302QSZZ	AC	N	C	Manual paper cupling spring Reversal spring
46	NCPL-0012QSZZ	AD	IN	C	Manual paper cupling
47	CPWBF0083QSE5	AU	 	E	Sensor PWB
48	DHA i - 0 3 6 0 Q S Z Z	AE	N	C	DUP 2 sensor harness
50	MLEVP0104QSZZ	AD	N	C	Reversal lever
51	LBSHZ0006QSZZ	AC	IN	C	M bushing 2
52	LSTPP0011QSZZ	AC		C	· ·
52	(Unit)	AC		U	E-ring
901	CFRM-0048RS53	BH	N	E	Multi manual paper feeding unit(Except No.36,40,41,43)
901	OI NW-0040N353	ВΠ	IN	E	ividiti manuai paper recuirig unit(Except No.30,40,41,43)
		l	l		



20 Multi manual paper feed unit



21 DV unit

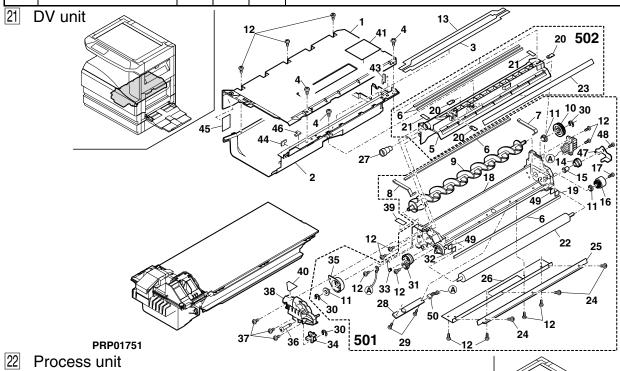
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
1	PG i DM 0 0 8 5 Q S Z Z	AP		С	TN guide U
2	PG i DM 0 0 8 6 Q S Z Z	AQ		С	TN guide D
3	PSEL-0035QSZZ	AE		С	TG seal
4	XBBSD40P08000	AA		С	Screw(4×8)
5	PCŌVP0072QSZZ	AK		D	DV cover U
6	PMLT-0002YSZ1	AC		С	DV-TH cushion
7	PMLT-0006YSZZ	AB		С	DV side cushion R
8	PMLT-0005YSZZ	AB		С	DV side cushion F
9	NRŌLP0072QSZ1	AP		O	DMX roller
10	NGERH0002YSZZ	AD		С	DMX gear(28T)
11	NBRGC0020QSZZ	AH		O	DMX Bearing
12	XEBSD30P08000	AA		O	Screw(3×8)
13	PSEL-0037QSZ1	AG		С	TG seal
14	NGERH0001YSZZ	AD		С	DV idle gear(20T)
15	NBRGC0021QSZZ	AD		С	DID Bearing
16	NGERH0136QSZZ	AD		С	MG gear(18T)
17	XBPSD30P06KS0	AA		С	Screw(3×6KS)
18	PBOX-0001YS13	AM		D	DV BOX
19	PSHEP0035YSZZ	AB		С	DV side seat N
20	LPLTM6022FCZZ	AC		С	M4 plate
21	PSEL-0025QSZZ	AA		С	DVC seal
22	NRŌLM0108QSZZ	BA	N	С	MG roller
23	PSEL-0132QSZZ	AG		C	DV plate
24	XBPBZ30P03000	AB		C	Screw(3×3)
25	LPLTM0001YSZZ	AN		Č	Doctor
26	LPLTM0002YSZ2	AP		Č	Doctor reinforce plate
27	PSEN-0001QSZZ	AC		Č	DV cap F
28	RDTCM0015QSZZ	AY		В	ATC sensor
29	XUBUZ30P08000	AA		C	Screw(3×8)
30	XRESP30-06000	AA		Č	E type ring
31	LHLDR0072QSZZ	AC		Č	MG holder
33	MSPRK0001YSZZ	AB		C	Bias spring
34	PSPAP0023QSZZ	AC		Č	DV spacer F
35	LHLDZ0001YSZZ	AD		Č	Bearing holder
36	L X - B Z 0 0 2 6 Q S Z Z	AD		C	Screw
37	XEBSD30P10000	AA		Č	Screw(3×10)
38	PCOVP0073QSZZ	AG		D	DV cover F
39	PSEL - 0 1 1 4 Q S Z Z	AC		C	Seal F
40	PSEL - 0 1 1 5 QSZZ	AD		C	Seal F2
41	TCAUH 0 0 1 6 Q S Z Z	AC		C	Label
43	PSEL - 0 1 1 7 QSZZ	AB		C	TG seal R
44	PSEL - 0 1 2 4 Q S Z Z	AB		C	TG seal F
45	PSPAP0036QSZZ	AC		C	TGU-SPA-FL
46	PSEL - 0 1 1 6 Q S Z Z	AB		C	DVC seal F
47	LANGFOO13QSZZ	AD		C	DID plate
48	XEBSD26P05000	AA		C	Screw(2.6×5)
49	PSHEP0324QSZZ	AC		C	DVB Sheet FBR
50	DHAi - 0314QSZZ	AH	N	C	Sensor harness
501	CBOX-0001JS5G	BL	N	E	DV box unit
502	CCOVP0072RS54	AP	IN	E	DV cover unit
502	0007700720354	AF		E	DV COVEL UIIII

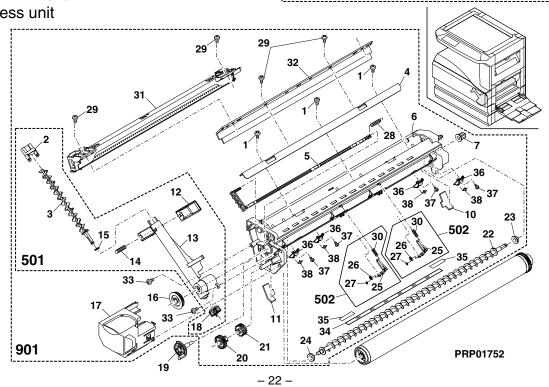
22 Process unit

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK		DESCRIPTION
1	XEBSD30P08000	AA		С	Screw(3×8)	
2	PCAPH0009QSZZ	AC		D	Toner pipe cap	
3	NSRW-0002QSZZ	AE		С	Transport pipe screw	
4	LPLTM0241QSZZ	AF		С	Process reinforce plate	
5	MLEVP0065QSZZ	AE		С	Separator pawl lever	
6	CFRM-0049RS61	ΑZ		D	Process frame unit	(Except Philippines,STCL,SRS,SRSSC,Indonesia,India,SRH)
ľ	CFRM-0049RS69	AZ		D	Process frame unit	(Philippines,STCL,SRS,SRSSC,Indonesia,India,SRH)
7	NCPL-0003QSZZ	AC		С	Screw cupring	
10	PSEL-0071QSZZ	AF		С	Seal R	
11	PSEL-0070QSZZ	AF		С	Seal F	
12	PSHT-0004QSZ1	AC		С	Toner pipp shuter	
13	PPiPP0015QSZZ	AG		С	Toner pipe	
14	MSPRC0045QSZZ	AA		С	Toner pipe spring	
15	PSPAZ0696FCZZ	AC		С	P cap spacer	
16	NGERH0036QSZZ	AC		С	Transport screw gear(30T)	
17	PCŌVP0057QSZZ	AG		D	Drum cover	
18	NGERH0039QSZZ	AE		С	Transport pipe gear(14T)	
19	LF i X - 0 0 1 4 Q S Z Z	AE		O	Drum fixing plate A	(U.S.A Other countries)
19	LF i X - 0 0 1 5 Q S Z Z	AE		O	Drum fixing plate B	(Europe, Australia, New Zealand)
20	NGERH0037QSZZ	AC		С	Idle gear(26T)	
21	NGERH0038QSZZ	AC		C	Transport pipe gear(15T)	
22	NSFTZ0020QSZZ	AL		С	Transport screw	
23	NBRGP0299FCZZ	AC		C	DV bearing	
24	PMLT-0018QSZ1	AC		C	Transport screw cushion	
25	PTME-0021QSZZ	AK		С	Separator pawl	

22 Process unit

NO.	PARTS CODE	PRICE RANK		PART RANK	DESCRIPTION
26	L X - W Z O 3 2 9 F C Z Z	AB		С	Washer
27	LX-RZ0001QSZZ	AB		С	Starling
28	MSPRT0214QSZZ	AB		С	Lever spring
29	XHBS230P08000	AA		С	Screw(3×8)
30	MSPRC0213QSZZ	AB		С	Separator pawl spring
31	CHLDZ0035RS53	ΑZ		Е	MC holder unit
32	UCLEZ0011QSZZ	AT		D	Cleaning blade
33	XEBSE30P10000	AA		С	Screw(3×10)
34	PSHEZ0329QSZZ	AC		С	Screw miler
35	PTPE-0026QSZZ	AA		С	Screw tape
36	LHLDZ0090QSZZ	AC		С	Star ring holder (Philippines,STCL,SRS,SRSSC,Indonesia,India,SRH)
37	L X - B Z 0 4 0 6 F C Z Z	AA		С	Screw(3×4) (Philippines,STCL,SRS,SRSSC,Indonesia,India,SRH)
38	PRNGF0106FCZ2	AC		С	Star ring N2 (Philippines,STCL,SRS,SRSSC,Indonesia,India,SRH)
501	CPiPP0015RS51	AP		E	Toner pipe unit
502	CTME-0021RS51	AK		Е	Separator pawl unit
	(Unit)				
901	CFRM-0049RS58	BK	N	Е	Process unit(Except No.19) (Except Philippines,STCL,SRS,SRSSC,Indonesia,India,SRH)
901	CFRM-0049RS54	BK		Е	Process unit(Except No.19) (Philippines,STCL,SRS,SRSSC,Indonesia,India,SRH)
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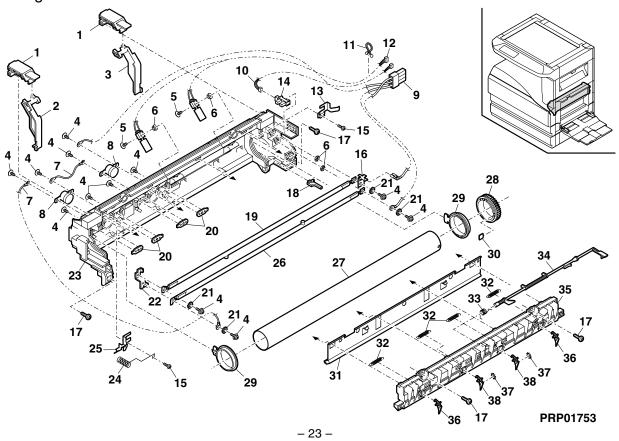




23 Fusing unit 1

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
1	MARMP0048QSZZ	AF	N	С	Pressurization fulcrum arm
2	MLEVP0100QSZZ	AE	N	С	Pressurization lever F TL
	MLEVP0101QSZZ	AE	N	С	Pressurization lever R TL
4	XBPSN30P08KS0	AA		С	Screw(3×8KS)
5	XBPSD30P14KS0	AA		С	Screw(3×14KS)
6		AA	N	С	Nut
7	DHA i - 0 3 6 8 Q S Z Z	AD	N	O	Thermostat harness 1
	RTHM-0004QSZZ	AN	N	В	Thermostat TL
		AL	N	С	Fusing harness
	DHA i - 0 3 6 7 Q S Z Z	AF	N	С	DUP sensor harness
	LHLDW0086QSZZ	AB		С	Harness ring
	RH-HX0001QSZZ	AS	N	В	Thermistor TL
		AC	N	С	Fusing earth plate UR
14	VHPGP1S73P+-1	AF		В	Photo sensor(GP1S73P)
15	XEBSD30P06000	AA		С	Screw(3×6)
	LPLTM0334QSZZ	AE	N	С	Lamp terminal plate
17	LX-BZ0040QSZZ	AC	N	С	Screw
18	LSTPP0017QSZZ	AF	N	С	Suport
19	RLMPU0027QSZZ	AY	N	В	Sub heater lamp (1
	RLMPU0029QSZZ	AY	N	В	Sub heater lamp (2
20	LPLTM0339QSZZ	AC	N	С	Thermostat fixing plate
21	L X - W Z 7 0 2 1 S C Z Z	AA		С	Washer
22	LPLTM0335QSZZ	AF	N	С	Lamp fixing plate
23	LFRM-0071QSZZ	AY	N	D	Fusing upper frame
24	MSPRC0323QSZZ	AC	N	С	Fusing earth spring
25		AC	N	С	Fusing earth plate UF
26	RLMPU0026QSZZ	AZ	N	В	Main heater lamp TL (1
	RLMPU0028QSZZ	AZ	N	В	Main heater lamp TL (2
27	NRŌLM0098QSZZ	BE	N	С	Heat roller TL
28		AR	N	В	Fusing gear TL(38T)
	NBRGP0025QSZZ	AN	N	С	Upper HR bearing TL
	CPLTM0336QS01	AR	N	С	Fusing cleaner plate
	MSPRT0257QSZ1	AC		С	Upper pawl spring
	MSPRD0322QSZZ	AC	N	С	Fusing ACT spring
		AF	N	С	Fusing rear side lever
	PGiDM0113QSZZ	AT	N	С	Fusing rear upper guide
36	PTME-0282FCZZ	AH		С	Upper separate pawl
37	LX-WZ0001QSZZ	AC		С	Washer
38	PTME-0024QSZZ	AN		С	Upper separate pawl
	(Unit)				
901	DUNTW0375RS12	BZ	N	E	Fusing unit(Include Block 24. Except No.17) (1

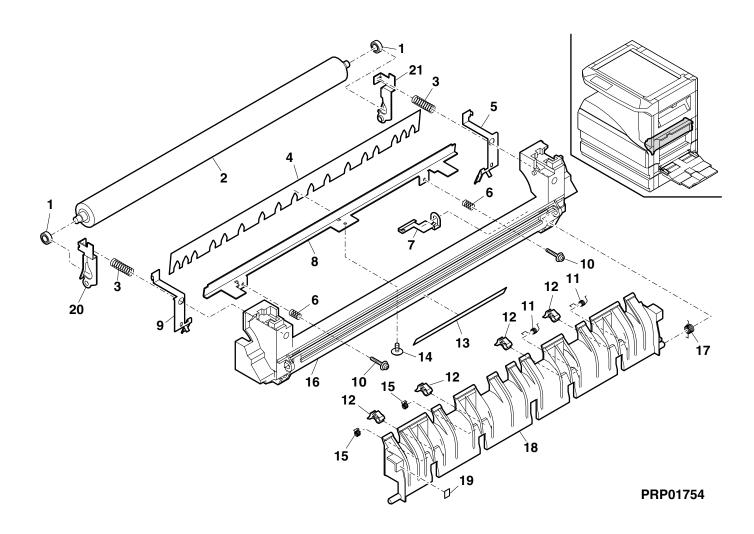
23 Fusing unit 1



24 Fusing unit 2

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
1	NBRGY0022QSZZ	AL		С	Fusing pressure bearing
2	NRŌLS0100QSZZ	BB	N	С	Fusing roller
3	MSPRC0324QSZZ	AC	N	С	Fusing pressure spring TL
4	PSHEZ0266QSZ1	AK		С	Fusing front guide sheet
6	MSPRC0325QSZZ	AB	N	O	Fusing front guide spring
7	LPLTM0344QSZZ	AC	N	С	Fusing front guide earth plate
8	PGiDH0114QSZZ	AH	N	O	Fusing front guide
9	LPLTM0340QSZZ	AC	N	O	Fusing earth plate DF
10	XBPSD30P14KS0	AA		O	Screw(3×14KS)
11	MSPRD0328QSZZ	AC	N	С	Lower pawl spring R TL
12	PTME-0014QSZZ	AK		O	Lower separate pawl
14	XBPSN30P08KS0	AA		С	Screw(3×8KS)
15	MSPRD0327QSZZ	AC	Ν	С	Lower pawl spring F TL
16	LFRM-0072QSZZ	AU	N	D	Fusing lower frame
17	MSPRD0326QSZZ	AC	N	С	Fusing rear lower guide spring
18	PG i DM 0 1 1 5 Q S Z Z	AS	N	С	Fusing rear lower guide
19	TLABH0289QSZZ	AA		С	Fusing green label
	(Unit)				
901	DUNTW0375RS12	BZ	N	Е	Fusing unit(Include Block 23.) (120V)
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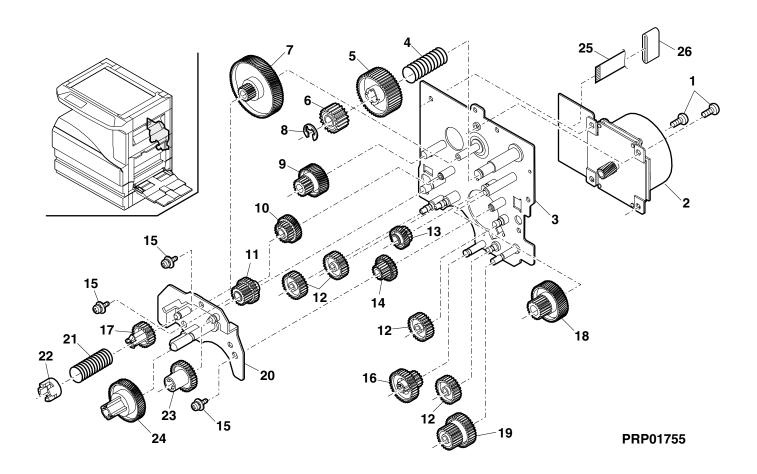
24 Fusing unit 2



25 Drive unit

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
1	XBPSD40P08K00	AA		С	Screw(4×8K)
2	RMŌTP0025QSNA	BF		В	Main motor
3	CPLTM0160QS01	AU		С	Main drive plate
4	MSPRC0200QSZZ	AB		С	Ratchet spring
5	NGERH0153QSZZ	AH		С	Ratchet gear(49T)
6	NGERH0090QSZZ	AE		С	Ratchet gear(19T)
7	NGERH0084QSZZ	AK		С	Gear(94/21T)
8	XRESP70-08000	AA		С	E type ring
9	NGERH0085QSZZ	AE		С	Gear(46/18T)
10	NGERH0086QSZZ	AD		С	Gear(39/21T)
11	NGERH0087QSZZ	AE		С	Gear(28/21T)
12	NGERH0010QSZZ	AD		С	Gear(28T)
13	NGERH0092QSZZ	AD		С	Gear(30/16T)
14	NGERH0093QSZZ	AD		С	Gear(28/16T)
15	XBPSD30P06KS0	AA		С	Screw(3×6KS)
16	NGERH0095QSZZ	AE		С	Gear
17	NGERH0011QSZZ	AD		С	MG gear
18	NGERH0152QSZZ	AH		С	N gear(59/21T)
19	NGERH0096QSZZ	AE		С	Gear(37/25T)
20	CPLTM0161QS01	AN		С	Sub drive plate
21	MSPRC0262QSZZ	AC		С	MG spring
22	NCPL-0009QSZZ	AC		С	MG cupring
23	NGERH0091QSZZ	AE		С	Cupring(34T)
24	NGERH0083QSZZ	AH		С	Drum cupring gear
25	DHA i - 0 3 7 6 Q S Z Z	AD	N	С	Main motor harness
26	RCŌRF0012QSZZ	AC		С	MM harness core (Taiwan)
	(Unit)				
901	CPLTM0160RS53	BN	N	Е	Drive unit(Except No.26)
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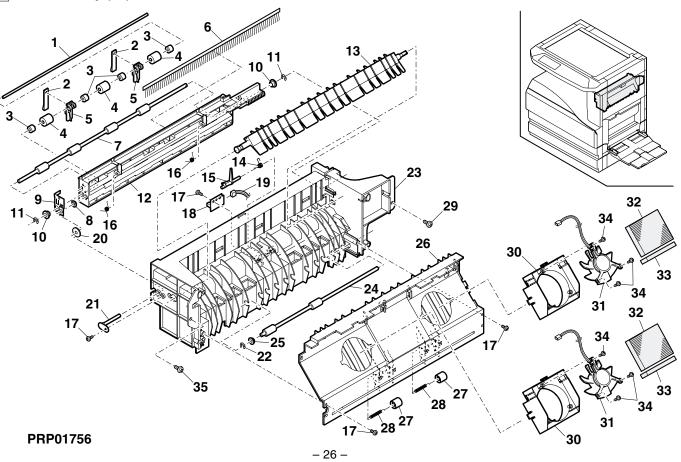
25 Drive unit



26 1st delivery paper unit 1

NO.	PARTS CODE	PRICE RANK		PART RANK	DESCRIPTION
	NSFTZ0042QSZZ	AF		С	Delivery sub roller shaft
	PGUMM0005QSZZ	AD		С	Paddler (Except AR-M276/M236 U.kingdom,Taiwan)
	NRŌLP0049QSZZ	AC		С	Delivery sub roller
	NRŌLP0079QSZZ	AC		С	Delivery sub roller (Large)
	LBRC-0003QSZZ	AD		С	P-OUT bracket
	PBRSR0019QSZZ	AK		В	Discharger brush LP
	NRŌLM0037QSZ4	AR		С	Delivery roller C
	NBRGY2122SCZZ	AB		С	Transport roller bearing
	LPLTM0195QSZZ	AC		С	Delivery earth plate A
	NBRGM0501FCZZ	AB		С	Bearing
	XRESP50-06000	AA		C	E type ring
	LHLDZ0058QSZZ	AR		C	Delivery roller holder
	LPLTP0185QSZ1	AL		O	Delivery change gate
	MSPRD0224QSZZ	AB		С	Delivery actuator spring
	MLEVP0055QSZ1	AC		С	Delivery actuator
	MSPRT0197QSZZ	AB		С	Delivery sub spring
	XEBSD30P08000	AA		С	Screw(3×8)
18	CPWBF0083QSE5	AU		Е	Sensor PWB
	DHA i - 0 3 6 4 Q S Z Z	AP	N	С	1st delivery harness
20	PSPŌ-0021QSZZ	AD		С	Shifter cution
21	CSFTZ0023QS01	AH		С	Shifter shaft
22	XRESP40-06000	AA		С	E type ring
24	NRŌLR0051QSZ1	AL		С	DUP delivery roller
25	LBSHZ0303FCZZ	AC		С	M bushing C
26	PGiDM0065QSZ1	AY		С	Delivery upper paper guide
27	NRŌLP1122FCZZ	AF		С	PS upper roller
28	MSPRT0229GCAZ	AC		С	FU spring R
29	XHBSE40P10000	AA		С	Screw(4×10)
30	PDUC-0003QSZ1	AG		С	Cooling fan duct
31	NFANP0004QSZZ	BB		В	Cooling fan
32	PFiLZ0004QSZZ	AM		В	Ozone filter
	PMLT-0027QSZZ	AC		С	Cleaning fan cushion
34	XEBSD20P06000	AA		С	Screw(2×6)
	L X - B Z 0 7 8 0 F C Z Z	AC		С	Screw
	(Unit)				
	CFRM-0038RS57	BT	N	Е	1st delivery unit(Include Block 27 Except No.29,35) (AR-M276/M236 U.kingdom,Taiwan)
	CFRM-0038RS58	BT	N	Е	1st delivery unit(Include Block 27 Except No.29,35) (Except AR-M276/M236 U.kingdom, Taiwan)
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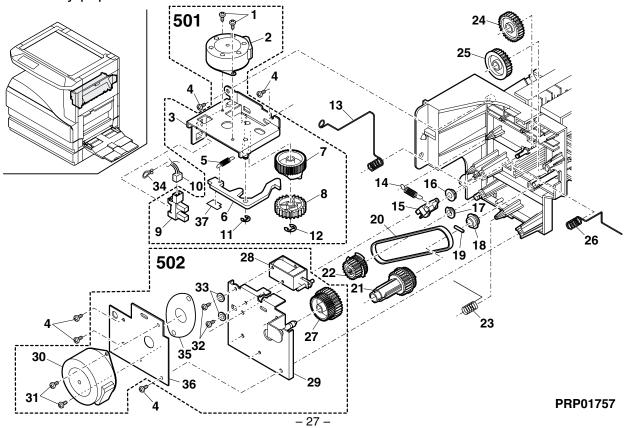
26 1st delivery paper unit 1



27 1st delivery paper unit 2

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
1	XHBSD30P08000	AA		С	Screw(3×8)
2	RMŌTP0029QSNA	AV		В	Shifter motor
3	CPLTM0184QS02	AG		С	Shifter drive plate
4	XEBSD30P08000	AA		С	Screw(3×8)
5	MSPRD0225QSZZ	AC		С	Stopper return spring
6	LSTPP0003QSZ1	AC		С	Shifter stopper
7	NGERH0068QSZ1	AD		С	Shifter gear(50T)
8	NGERH0067QSZZ	AD		С	Shifter gear(24T)
9	VHPGP1A71L3-1	AG		В	Photo sensor(GP1A71L3)
10	DHAi-0364QSZZ	AP	N	С	1st delivery harness
11	XRESP30-06000	AA		С	E type ring
12	XRESP40-06000	AA		С	E type ring
13	MSPRD0216QSZZ	AD		С	Shifter earth spring
14	MSPRT0217QSZ1	AC		С	Gate return spring
15	LBRC-0002QSZZ	AD		С	Gate bracket
16	L B S H Z O 3 O 3 F C Z Z	AC		С	M bushing C
17	NBRGY2122SCZZ	AB		С	Transport roller bearing
18	NBRGC0019QSZZ	AD		С	Bearing
19	LPiNS0258FCZZ	AA		С	Spring pin(\phi3-10)
20	NBLTT0024QSZZ	AG		В	Drive belt 240
21	NGERH0080QSZZ	AE		С	Delivery drive gear(25/31T)
22	NGERH0082QSZZ	AD		С	DUP delivery gear(20/31T)
23	MSPRD0198QSZZ	AC		С	Delivery earth spring B
24	NGERH0113QSZZ	AC		С	Idle gear B(29T)
25	NGERH0114QSZZ	AC		С	Idle gear C(29T)
26	MSPRD0196QSZZ	AC		С	Delivery earth spring A
27	NGERH0155QSZZ	AD		С	Gear(31/39T)
28	RPLU-0027QSZZ	AU		В	Change gate solenoid
29	CBRC-0004QS03	AF		С	DUP motor fixing bracket
30	RMŌTP0024QSZZ	AW		В	DUP motor
31	XHBSD30P08000	AA		С	Screw(3×8)
32	XBBSD26P03000	AA		С	Screw(2.6×3)
33	XWHSD30-05070	AA		С	Washer
34	LHLDW1334FCZZ	AA		С	Wire holder
35	PSHEZ0316QSZZ	AD		С	Delivery motor sheet
36	PRDAZ0002QSZZ	AD		С	Delivery motor radiation plate
37	PSHEZ0341QSZZ	AA		С	Shifter stop mylar
501	CPLTM0184RS52	AZ	N	Е	Shifter unit
502	CBRC-0004RS51	BA		Е	DUP motor fixing bracket unit
	(Unit)				
001	CFRM-0038RS57	BT	N	Е	1st delivery unit(Include Block 26) (AR-M276/M236 U.kingdom,Taiwan)
901	CFRM-0038RS58	BT	N	Е	1st delivery unit(Include Block 26) (Except AR-M276/M236 U.kingdom,Taiwan)
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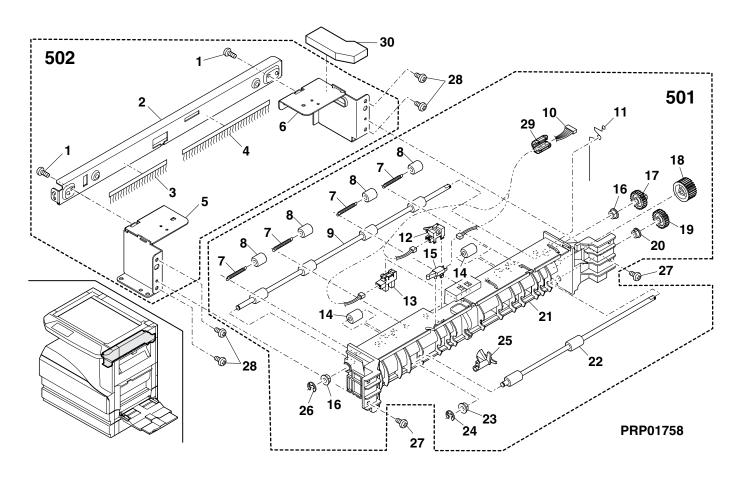
27 1st delivery paper unit 2



28 2nd delivery paper unit

NO.	PARTS CODE	PRICE RANK		PART RANK	DESCRIPTION
1	XHBSD40P10000	AA		С	Screw(4×10)
2	CPLTM0216QS01	AH		C	DID rail assistance plate
3	PBRSR0021QSZ1	AG		В	Discharger brush S
4	PBRSR0020QSZ1	AH		В	Discharger brush L
5	LFRM-0047QSZZ	AG		D	Delivery frame
6	LFRM-0058QSZZ	AG		D	Delivery frame R
7	MSPRT0229GCAZ	AC		С	FU spring R
8	NRŌLP1122FCZZ	AF		С	PS upper roller
9	NRŌLR0056QSZ1	AN		С	Delivery roller
10	DHA i - 0 3 6 5 Q S Z Z	AH	N	С	2nd delivery harness
11	MSPRD0218QSZZ	AD		С	Delivery earth spring
12	VHPGP1S44S/-1	AK		В	Photo sensor(GP1S44S)
	VHPGP1S73P+-1	AF		В	Photo sensor(GP1S73P)
	NRŌLP0079QSZZ	AC		С	Delivery roller
	QSW-B0017QSZZ	AF		В	Tray detect switch
	NBRGM0501FCZZ	AB		O	Bearing
	NGERH0111QSZZ	AC		С	Drive gear A(25T)
	NGERH0110QSZZ	AE		С	Idle gear A(29T)
	NGERH0112QSZZ	AC		С	Drive gear B(25T)
20	NBRGY2122SCZZ	AB		С	Transport roller bearing
21	PGiDM0072QSZ2	AU		C	Delivery lower paper guide
22	NRŌLR0051QSZ1	AL		С	DUP delivery roller
23	LBSHZ0303FCZZ	AC		С	M bushing C
24	XRESP40-06000	AA		С	E type ring
25	MLEVP0067QSZ1	AC		С	Delivery actuator
26	XRESP50-06000	AA		С	E type ring
27	XHBSD30P08000	AA		С	Screw(3×8)
28	XHBSE40P10000	AA		С	Screw(4×10)
29	RCŌRF0014QSZZ	AK		С	Core (Taiwan)
	PMLT-0090QSZZ	AE	N	С	2nd delivery upper cushion R
501	CG i DM 0 0 7 2 R S 6 4	BB	N	Е	Delivery lower PG unit
502	CFRM-0047RS51	AV		Е	Delivery frame unit
		1			

28 2nd delivery paper unit



29 PWB section

2 4 5 6 7	CPWBX0136QS31 XBBSD30P08000	CG		RANK		
4 5 6 7		ou	N	Е	IMC PWB	
5 6 7		AA		С	Screw(3×8)	
6 7	CPWBF0138QSE1	BD	N	Е	Option interface PWB	
7	XBBSF30P08000	AA		С	Screw(3×8)	
	DHAi-0372QSZZ	AE	N	С	OP interface PWB harness	
	LHLDZ0062QSZ2	AT		С	MCU PWB holder	
8	LX-BZ0031QSZZ	AC		С	Screw	
9	LHLDW0086QSZZ	AB		С	Harness ring	
	CPWBX0134QS31	CF	N	Е	MCU PWB	(AR-M237/M236)
12	LHLDZ0071QSZZ	AG		С	Mother bord holder	
	CPWBN0137QSE1	AZ	N	Е	Mother bord	
14	XHBSE30P08000	AA		С	Screw(3×8)	
15	L X - B Z 0 0 2 4 Q S Z Z	AA		С	Screw	
	LHLDZ0070QSZ2	AX	N	С	OP PWB holder	
	XHBSE30P08000	AA		С	Screw(3×8)	
	XEBSE40P10000	AA		С	Screw(4×8)	
	XBPSD30P08KS0	AA		С	Screw(3×8)	
	PSHEZ0269QSZZ	AC		С	CCD harness sheet	
	RCORF0002QSZZ	AE		С	Core	
	DHA i - 0 3 4 5 Q S Z Z	AG	N	С	CCD harness	
	DHA i - 0 3 5 3 Q S Z Z	AH	N	С	ILSW I/F harness 2	
29	DHA i - 0 3 9 2 Q S Z Z	AU	N	O	2nd harness	
30	PCAPH0023FCZZ	AC		D	15P protect cap	
	PCAPH1003ACZZ	AC		D	25P protect cap	
	PCAPH1005ACZZ	AC		D	9P protect cap	
	CPWBN0135QS31	CF	N	Е	GDI PWB	
	DHA i - 0 3 6 4 Q S Z Z	AP	N	С	1st delivery harness	
	DHA i - 0 2 0 0 Q S Z Z	AS		С	CL harness	
	DHAi-0346QSZZ	AP	N	С	Optical sensor harness	[AB Series]
1	DHA i - 0 3 4 7 Q S Z Z	AN	N	С	Optical sensor harness	[Inch Series]
	DHAi-0373QSZZ	AS	N	С	DV/LSU interface harness	
	DHA i - 0 3 7 1 Q S Z Z	AR	N	С	Drive/Manual paper feed interface harness	
	DHA i - 0 3 9 5 Q S Z Z	AG	N	С	Cassette sensor PWB harness	
	DHAi-0348QSZZ	AH	N	С	Operation PWB FFC	
	DHAi-0381QSZZ	AH	N	С	Fusing interface harness	
	DHAi-0374QSZZ	AX	N	С	Power supply harness	
	PGSK-0018QSZZ	AH		С	MCU-OP PWB holder cushion	(Taiwan)
	RCŌRF0011QSZZ	AG		С	Manual harness core	(Taiwan)
	PTPE-0034QSZZ	AP		С	MB holder shield cushion	(Taiwan)
	PTPE-0035QSZZ	AH		С	MB holder tape B	(Taiwan)
	PGSK-0017QSZZ	AH		С	1394CN cushion	(Taiwan)
	PTPE-0027QSZZ	AP		С	OP PWB holder shield tape A	(Taiwan)
	PTPE-0028QSZZ	AG		С	OP PWB holder shield tape B	(Taiwan)
	PTPE-0029QSZZ	AG		С	OP PWB holder shield tape C	(Taiwan)
54	PSHEM0338QSZZ	AH		С	IMC shield alpet	(Taiwan)
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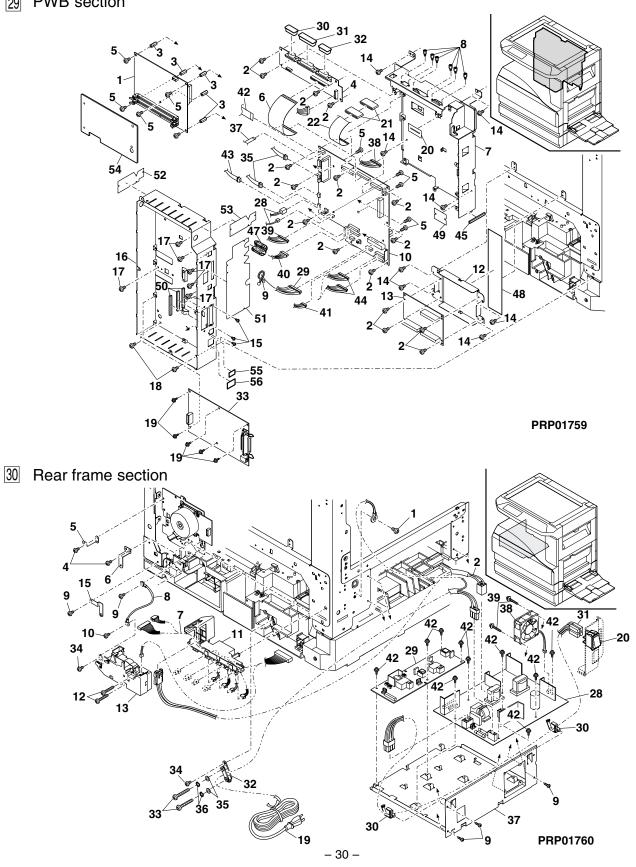
30 Rear frame section

00	icai name scotton				
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
1	XBPSN40P06K00	AA		С	Screw(4×6K)
2	DHA i - 0 3 7 5 Q S Z Z	AM	N	С	HL interface harness
4	XHBSE30P06000	AA		С	Screw(3×6)
5	LPLTM0162QSZZ	AC		С	Drive earth plate
6		AD		С	Paper feed earth plate LP
7	DHAi-0371QSZZ	AR	N	С	Drive/Manual paper feed interface harness
8	DHAi-0378QSZZ	AC	Ν	С	Cassette earth harness
9	XHBSE30P08000	AA		С	Screw(3×8)
10	XEBSD40P30000	AA		С	Screw(4×30)
11	PG i DM 0 1 1 2 Q S Z Z	AG	N	С	Harness guide
12	XEBSD40P30000	AA		С	Screw(4×30)
13	CDA i U 0 0 2 4 R S 5 3	AZ	N	Е	1st lift up unit
15		AC		С	2nd earth plate
Δ	QACCDR614QCPZ	AS		В	AC cord (U.S.A,Canada,Brazil,LAG2)
Δ	QACCBR421QCPZ	AZ		В	AC cord (U.kingdom,UAE,Yemen,Oman,Qutar,Kuwait,Bahrain)
Δ	QACCER624QCPZ	AW		В	AC cord (Other Countries)
	QACCJR614QCPZ	AW		В	AC cord (Philippines,Taiwan)
Δ	QACCLR421QCPZ	AW	N	В	AC cord (Australia,New Zealand)
Δ	DHA i - 0 1 6 7 Q S Z Z	BA	N	В	AC cord (Saudi Arabia)
Δ	DHA i - 0 1 5 1 QSZZ	AU	N	В	AC cord (SRS,SRSSC,South africa,Special Country,India,Hong kong)
20		AN		В	Power supply switch(AJ8W200B)
Δ	RDENC0011QSZZ	BY	N	Е	Low voltage power supply unit (100V)
∆ 28		BY	N	Е	Low voltage power supply unit (120V)
Δ	RDENC0011QS12	BY	N	Е	Low voltage power supply unit (230V)
29		BN	N	Е	High voltage Power supply unit
30		AB		С	Wire holder(LWS-3S)
31	DHA i - 0 3 7 7 Q S Z Z	AP	N	С	AC switch harness
32	LF i X - 0 0 1 6 F C Z Z	AD		С	AC cord fixer
33	XEBSD40P30000	AA		С	Screw(4×30)
34	XEBSE40P12000	AA		С	Screw(4×12)

30 Rear frame section

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
35	XWHSD40-08100	AA		С	Washer
36	XWSSD40-10000	AA		С	Washer
37	LPLTM0349QSZZ	AS	N	С	Power supply plate
38	NFANP0011QSZZ	AS	N	В	P/S fan motor
39	XBPSD30P30KS0	AA		C	Screw(3×30KS)
42	XBPSD30P08KS0	AA		С	Screw(3×8KS)

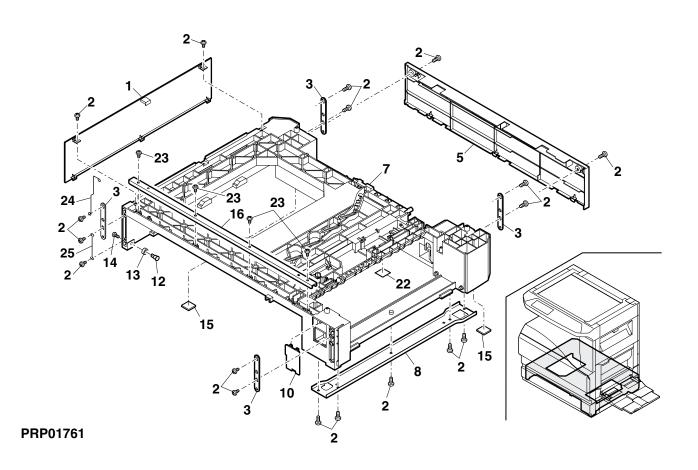
29 PWB section



31 2nd exteriors

NO.	PARTS CODE	PRICE RANK		PART RANK	DESCRIPTION
1	GCAB-0030QSZA	AN	N	D	Left cabinet
2	XEBSE40P12000	AA		С	Screw(4×12)
3	LPLTM0240QSZZ	AC		С	2nd joint plate
5	GCOVA0025QSZB	AS	N	D	Rear cover
7	LFRM-0039QSZB	BK	N	D	Frame
8	LPLTM0236QSZZ	AG		С	2nd reinforce plate R
10	PCŌVP0063QSZB	AD	N	D	Front cover
12	NSFTZ0048QSZZ	AG		С	Cassette collar shaft
13	NKŌM-0005QSZZ	AC		С	Cassette guide collar
14	XBPSD30P08KS0	AA		С	Screw(3×8KS)
15	GLEGG0064FCZZ	AC		С	Rubber foot
16	LPLTM0237QSZZ	AH		С	2nd reinforce plate F
22	PSHEZ0325QSZZ	AB		С	Frame lower mylar
23	LX-BZ0037QSZZ	AB	N	С	Screw
24	MSPRD0276QSZZ	AS		С	Front earth spring (Taiwan)
25	MSPRD0277QSZZ	AN		С	2nd joint earth spring (Taiwan)

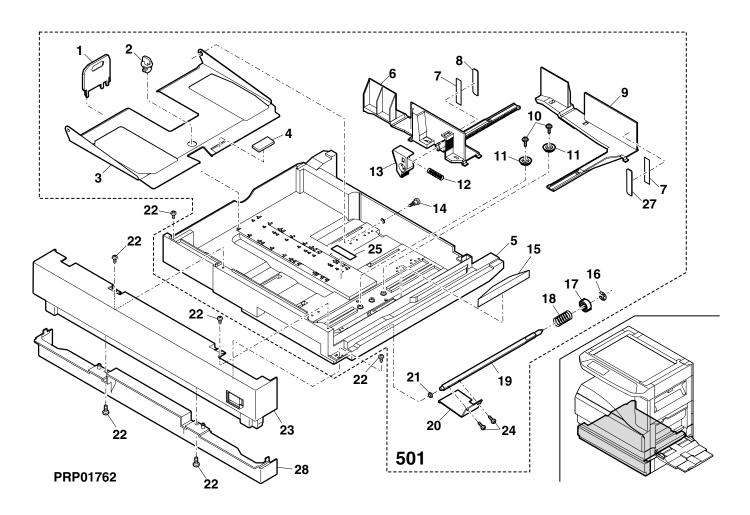
31 2nd exteriors



32 2nd 550 cassette unit

NO.	PARTS CODE	PRICE RANK		PART RANK	DESCRIPTION
1	LPLTP0159QSZZ	AD		С	Cassette rear side plate
2	LHLDW1226FCZZ	AB		С	Turn fastener
3	LPLTM0179QSZ1	AR		С	Rotetion plate
4	PSHEZ0274QSZZ	AC		С	Rotation plate sheet
5	GCASP0005QSZ2	BA	N	D	550 cassette
6	PGiDM0070QSZ1	AM		С	Guide F
7	PTPE-0021QSZZ	AD		С	GID tape
8	LPLTM0181QSZ1	AB		С	Side plate guide F
9	PGiDM0071QSZZ	AL		С	Guide R
10	L X - B Z 0 8 8 4 F C Z Z	AB		С	Screw
11	NGERH0193FCZZ	AB		С	UC manual feed gear
12	MSPRC2631FCZZ	AC		С	Fusing pressure spring
13	MLEVP0755FCZ1	AE		С	Side plate F lever
14	LX-BZ0833FCZZ	AC		С	Screw
15	CSHEZ0244QS02	AE		С	Cassette mylar
16	XRESP70-08000	AA		С	E type ring
17	NGERH0108QSZZ	AD		С	Lift gear(22T)
18	MSPRC0210QSZZ	AC		С	Lift gear spring
19	NSFTZ0047QSZZ	AP		С	Lift shaft
20	LPLTM0180QSZ1	AE		O	Lift plate
21	NBRGP0041GCZZ	AD		С	Bearing
22	XEBSE40P10000	AA		С	Screw(4×10)
23	JHNDP0005QSZZ	AY	N	С	Cassette panel
24	XBPSD40P08KS0	AA		С	Screw(4×8KS)
25	TLABZ0366QSZZ	AD		С	Label (Taiwan)
27	LPLTM0277QSZZ	AC		С	Side plate guide R
28	PCŌVP0096QSZZ	AN	N	С	Cassette panel line
	(Unit)				
901	CCASP0005RS55	BM	N	Е	2nd 550 cassette unit

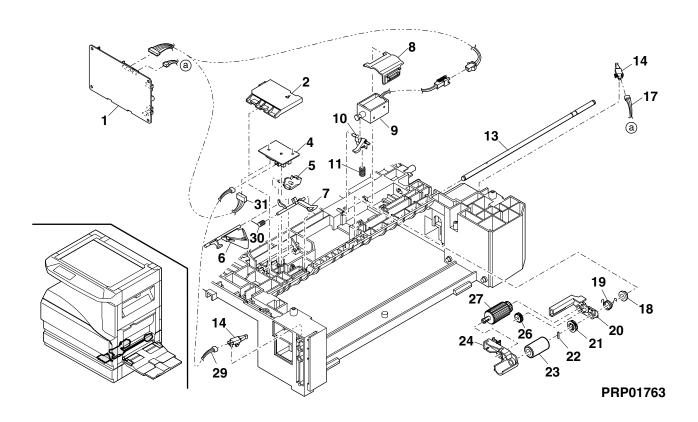
32 2nd 550 cassette unit



33 2nd paper feed section

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
1	CPWBF0082QSE1	BB		Е	2nd cassette interface PWB
2	PCOVP0070QSZZ	AD		D	Sensor cover
4	CPWBF0095QSE3	AP	N	E	2nd cassette sensor PWB
5	MLEVP0063QSZZ	AD		С	Upper limit detect actuator
6	MLEVP0064QSZZ	AD		O	Paper detect actuator
7	MLEVP0062QSZZ	AC		С	P-IN detect actuator
8	PCŌVP0064QSZZ	AD		D	Solenoid cover
9	RPLU-0026QSZ1	AR		В	Paper feed solenoid
10	MARMP0026QSZZ	AD		O	Solenoid arm
11	MSPRC0209QSZ1	AC		С	Solenoid spring
13	NSFTZ0050QSZ1	AH		O	2nd paper feed roller shaft
14	QSW-B0017QSZZ	AF		В	Tray detect switch
17	DHA i - 0 3 9 7 Q S Z Z	AD	N	С	Cassette detect interface harness
18	NBRGC0100FCZ1	AC		С	Bearing 6
19	MSPRD0206QSZZ	AC		С	Pick up roller pressure spring
20	MARMP0021QSZZ	AD		С	Pick up arm R
21	NGERH0107QSZZ	AD		С	Paper feed gear
22	LP i N - 0 0 2 6 M C Z Z	AA		С	Spring pin(φ2-10)
23	NRŌLR0055QSZ1	AR		С	Paper feed roller
24	MARMP0019QSZZ	AD		O	Pick up arm F
26	NGERH0990FCZZ	AB		С	Gear(16T)
27	NRŌLR0054QSZZ	AP		O	Pick up roller
29	DHAi-0394QSZZ	AD	Ν	O	Door open/close detect harness
30	MSPRD0204QSZZ	AC		C	P-IN detect actuator spring
31	DHAi-0395QSZZ	AG	N	С	Cassette sensor PWB harness
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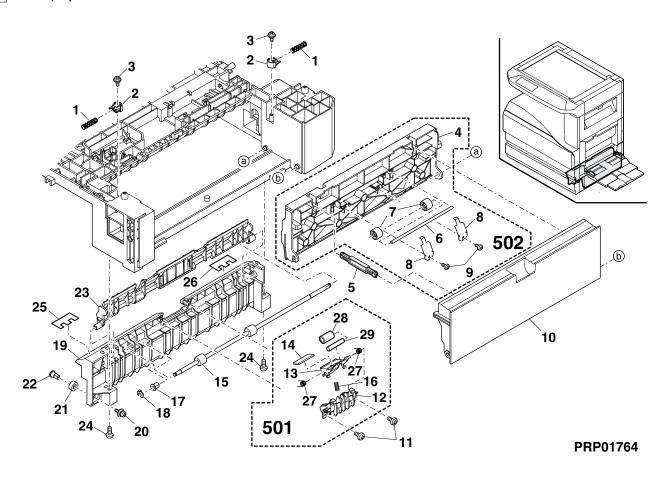
33 2nd paper feed section



34 2nd paper transfer section

NO.	PARTS CODE	PRICE RANK		PART RANK	DESCRIPTION
1	MSPRC0141QSZZ	AB		С	lock spring
2	MLŌKZ0001QSZZ	AC		С	Paper guide lock
3	XEPSD30P08X00	AA		С	Screw(3×8X)
4	PGiDM0068QSZZ	AP		С	Transport paper guide
5	MARMP0015QSZZ	AD		С	Door arm
6	NSFTZ0054QSZZ	AE		С	Transport paper guide shaft
7	NRŌLP1060FCZZ	AF		С	U-turn roller
8	MSPRP0345QSZZ	AD	N	С	Transport paper guide spring
9	XEBSD30P08000	AA		С	Screw(3×8)
10	GCŌVA0026QSZB	AP	N	D	Right cover
11	XEBSD30P10000	AA		С	Screw(3×10)
	PCŌVP0089QSZZ	AD		D	Plate cover
	LPLTP0297QSZZ	AC		С	Separation plate
	PSHEZ0378QSZZ	AG		С	Separation sheet
	NRŌLR0052QSZZ	AN		С	Transport roller
	MSPRC0270QSZZ	AB		С	Separation plate spring
	NBRGZ0503FCZZ	AC		С	Bearing
	LSTPP0011QSZZ	AC		С	E-ring
	LRALP0009QSZZ	AQ		С	Cassette rail R
	XBPSD30P08KS0	AA		O	Screw(3×8KS)
	NKOM-0005QSZZ	AC		С	Cassette guide collar
	NSFTZ0048QSZZ	AG		O	Cassette collar shaft
	PGiDM0074QSZZ	AK		O	2nd U-turn guide
	XEBSE40P12000	AA		O	Screw(4×12)
	PSHEZ0301QSZZ	AC		С	Rail R side mylar F
	PSHEZ0302QSZZ	AC		O	Rail R side mylar R
27	MSPRD0287QSZZ	AC		С	Paper feed assistance roller SP
28	NRŌLP0087QSZZ	AD		С	Paper feed assistance roller
29	NSFTZ0064QSZZ	AD		С	Paper feed assistance roller shaft
501	CCOVP0089RS51	AQ		Е	Plate cover unit
502	CG i DM 0 0 6 8 R S 5 1	AS		Е	Transport paper guide unit
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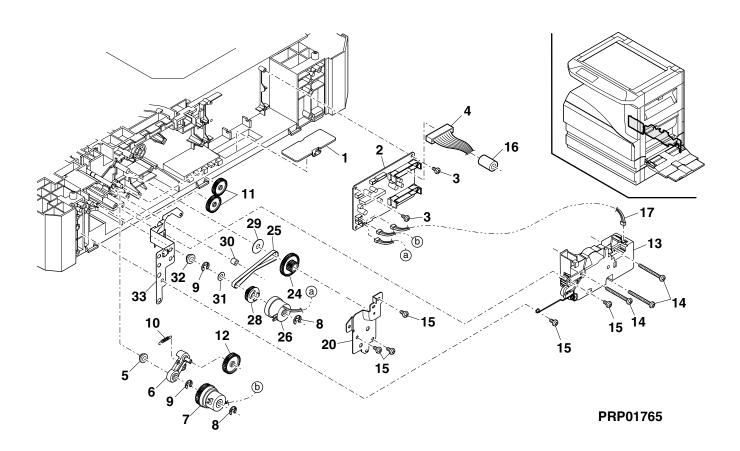
34 2nd paper transfer section



35 2nd drive section

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
1	PCOVP0084QSZZ	AE		С	2nd bottom cover
2	CPWBF0082QSE1	BB		Е	2nd cassette interface PWB
3	XEBSD30P08000	AA		С	Screw(3×8)
4	DHAi-0392QSZZ	AU	N	С	2nd harness
5	NBRGC0100FCZ1	AC		С	Bearing 6
6	MARMP0018QSZZ	AD		С	Body joint arm
7	PCLC-0014QSZZ	AS		В	2nd paper feed clutch(42T)
8	XRESP40-06000	AA		С	E type ring
9	XRESP50-06000	AA		С	E type ring
10	MSPRT0203QSZZ	AC		С	Joint spring
11	NGERH0119QSZZ	AD		С	Gear(36T)
12	NGERH1207FCZZ	AF		С	Joint gear(40T)
13	CDA i U 0 0 2 4 R S 5 4	AZ	N	Е	2nd lift up unit
14	XEBSD40P30000	AA		С	Screw(4×30)
15	XEBSE40P12000	AA		С	Screw(4×12)
16	RCORF1036ACZZ	AP		С	Core
17	DHA i - 0 3 9 6 Q S Z Z	AD	N	С	LUM harness
20	LPLTM0203QSZ1	AF		С	Drive plate
24	NGERH0121QSZZ	AE		С	Gear(20T/45T/26P)
25	NBLTT0029QSZZ	AG		В	Vertical delivery belt
26	PCLC-0011QSZZ	AS		В	Transport clutch
28	NPLYZ0027QSZZ	AD		С	Vertical transport pulley
29	PSHEZ0250QSZZ	AB		С	Frange mylar
30	NRŌLP0008QSZZ	AD		С	Pulley
31	PSHEZ0249QSZZ	AB		С	Frange mylar
32	NBRGC0529FCZZ	AD		С	Bearing
33	LPLTM0176QSZZ	AH		С	Crutch earth plate
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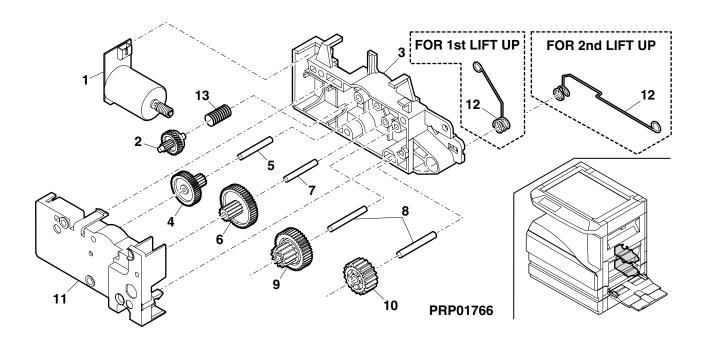
35 2nd drive section



36 Pick up motor unit

NO.	PARTS CODE	PRICE RANK		PART RANK	DESCRIPTION
1	CMOTV0778FCE3	AU	N	Е	Lift up motor unit
2	NGERH0158QSZ1	AE		С	Gear(29T/11T)
3	L D A i U 0 0 2 4 Q S Z 1	AH	N	D	Lift up base
4	NGERH0102QSZZ	AD		С	Gear(53T/14T)
5	NSFTZ0045QSZZ	AC		С	Shaft
6	NGERH0103QSZZ	AE		С	Gear(54T/13T)
7	NSFTZ0044QSZZ	AC		С	Shaft
8	NSFTZ0060QSZZ	AC		С	Shaft
9	NGERH0104QSZZ	AE		С	Gear(13T/42T)
10	NGERH0105QSZZ	AD		С	Gear(19T)
11	PCOVP0061QSZ1	AH		D	Lift up cover
12	MSPRD0208QSZZ	AC		С	1st cassette earth spring
12	MSPRD0251QSZZ	AD		С	2nd cassette earth spring
13	MSPRC0263QSZZ	AC		С	Lift up spring
	(Unit)				
901	CDA i U 0 0 2 4 R S 5 3	AZ	N	Е	1st lift up unit
901	CDA i U 0 0 2 4 R S 5 4	AZ	N	Е	2nd lift up unit

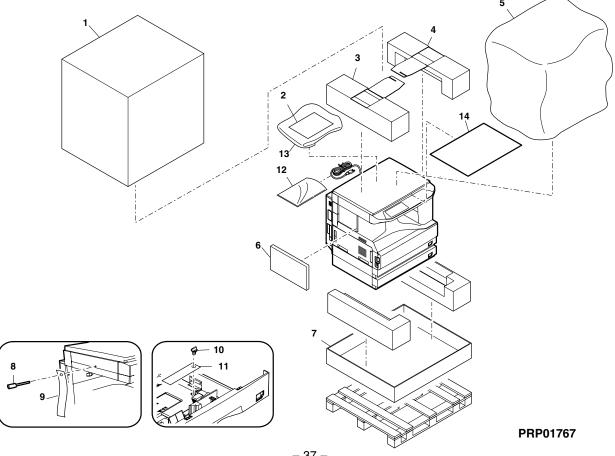
36 Pick up motor unit



Packing material & accessories

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION			
	TiNSE1005QSZZ	AW	N	D	Operation manual (Copy) (English)[U.kingdom			
	TiNSE1003QSZZ	AW	N	D	Operation manual (Copy) (English)[Other Countries			
	TiNSE1001QSZZ	AX	N	D	Operation manual (Copy) (English)[U.S.A			
	TiNSE1031QSZZ	AL	N	D	Operation manual (Key) (English)[U.kingdom			
	TiNSE1029QSZZ	AL	N	D	Operation manual (Key) (English)[Other Countries			
	TiNSE1027QSZZ	AL	N	D	Operation manual (Key) (English)[U.S.A			
	TiNSE1053QSZZ	AL	N	D	Operation manual (Set up) (English			
	TiNSE1091QSZZ	AQ	N	D	Operation manual (NW scanner) (English			
	TiNSF1006QSZZ	AZ	N	D	Operation manual (Copy) (French			
	TiNSF1032QSZZ	AP	N	D	Operation manual (Key) (French			
	TiNSF1055QSZZ	AN	N	D	Operation manual (Set up) (French			
2	TiNSF1093QSZZ	AU	N	D	Operation manual (NW scanner) (French			
	TiNSG1008QSZZ	AZ	N	D	Operation manual (Copy) (German			
	TiNSG1034QSZZ	AP	N	D	Operation manual (Key) (German			
	TiNSG1056QSZZ	AN	N	D	Operation manual (Set up) (German			
	TiNSG1095QSZZ	AU	N	D	Operation manual (NW scanner) (German			
	CDSKA0035QS32	AW	N	D	CD-ROM (GDI)[U.S.A,Other Countries			
	TCADZ0015QSZZ	AD	N	D	ECP card (Canada			
	PSHEZ1394FCZZ	AC		D	Vinyl sheet			
	TLABH0484QSZZ	AE	N	D	Paper size label (Inch Series			
	UKŌGZ0002FCZZ	AD		D	Vinyl gloves			
	UYŌK-0011FCZZ	AA		D	Vinyl bag			
	CCASZ0067FC01	AD		D	Maintenance case			
3	SPAKA0482QSZZ	AW	N	D	Top packing L (AR-M237/M277			
3	SPAKA0480QSZZ	AW	N	D	Top packing L (AR-M236/M276			
4	SPAKA0483QSZZ	AW	N	D	Top packing R (AR-M237/M277			
4	SPAKA0481QSZZ	AW	N	D	Top packing R (AR-M236/M276			
5	SSAKZ0019FCZZ	AM		D	Vinyl bag			
6	SPAKA0485QSZZ	AL	N	D	Scanner rainforce add			
7	SPAKA0484QSZZ	BE	N	D	Bottom packing case			
8	L X - B Z 0 0 1 5 Q S Z Z	AF		D	2/3 fixing screw			
9	TCADZ0010QSZZ	AC		D	Fixing screw caution card			
10	LHLDW1226FCZZ	AB		С	Turn fastener			
11	TCADZ1275FCZZ	AB		D	Cassett rotation tag			
12	SSAKA3001CCZZ	AA		D	Vinyl bag(140X360)			
13	SSAKA2343QCZZ	AA		D	Vinyl bag(260X380)			
14	SPAKA0134RSZZ	AL		D	OC protect sheet			
101	CSHEZ0433QS05	AG	N	С	Key sheet (French)[Canada			

Packing material & accessories



■ Index

Index					
DARTE CODE	NO	PRICE	NEW	PART	
PARTS CODE	NO.	RANK	MARK	RANK	
[C]					
CBOX-0001JS5G	21-501	BL	N	E	
CBRC-0004QS03 CBRC-0004RS51	27- 29	AF BA		C E	
CBTN-0068QS01	27- 502 9- 18	AF	N	C	
CBTN-0069QS02	9- 17	AF	N	C	
CBTN-0070QS01	9- 19	AN	N	C	
CBTN-0071QS01	9- 20	AM	Ν	С	
CBTN-0071QS02	9- 20	AM	N	С	
CCAB-0077RS51	6- 501	AZ	N	E	
CCASP0005RS55	2- 23 32-901	AP BM	N N	D E	
CCASP0005R355	15- 901	BL	N	E	
CCASZ0067FC01	37- 2	AD		D	
CCOV-0051QS01	2- 26	AX	N	D	
CCOV-0051QS02	2- 26	AX	N	D	
CCOV-0051QS07	2- 26	AX	N	D	
CCOV-0051QS08 CCOVP0053RS53	2- 26 17-502	AX AW	N	D E	
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CCOVP0072H354	34- 501	AQ		E	
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//	13- 8	BH	N	D	
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CFiLW0283FC02	9- 23	AH	N	D	
CFiLW0284FC02	9- 21	AF	N	D	
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CFRM-0049RS69	22- 6	AZ		D	
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//	8- 501	BL	N	E	
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CHA i -0356RS51	14- 7	AL	N	С	
CHA i -0357RS51	14- 8	AL AZ	N	C E	
CHLDZ0035RS53 CHLDZ0105RS51	22- 31 9-501	AU	N	E	
CLNS-0003RS54	13- 28	BQ	N	E	
CMOTV0778FCE3	36- 1	AU	N	E	
CPiPP0015RS51	22-501	AP		Е	
CPLTM0084QS02	12- 17	AK		С	
CPLTM0160QS01	25- 3	AU		C	
CPLTM0160RS53	14- 67 25- 901	BN BN	N N	E	
CPLTM0161QS01	25- 901	AN	IN	C	
CPLTM0161Q301	10- 6	AK	N	С	
CPLTM0184QS02	27- 3	AG		C	
CPLTM0184RS52	27-501	AZ	N	Е	
CPLTM0216QS01	28- 2	AH		С	
CPL TM0323RS51	8- 502	AY	N	E	
CPLTM0336QS01 CPLTM0342QS01	23- 31 10- 42	AR AH	N N	С	
CPLTM0342QS01	20- 27	AG	N	C	
CPNLH0029QS05	9- 25	AY	N	D	
CPNLH0029QS06	9- 25	AY	N	D	
CPNLH0029RS55	9-901	BY	N	D	
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CPWBF0095QSE3	33- 4	AP	N	Ē	
CPWBF0106QSE4	19- 17	AP	N	E	
CPWBF0138QSE1	29- 4	BD	N	E	
CPWBF0139QSE1	5- 1	BA	N	Е	
CPWBF0145QSE1	9- 15	AX	N	E	
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CSHEZ0433QS05	37-101	AG	N	C	
CSŌU-0024RS55	19-901	BK	N	Е	
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	5-501	BQ	Ν	Е	
CSŌU-0038RS51	4-502	BF	N	E	
CSW-M0007RS56	14- 36	AΡ	N	В	
CTME-0021RS51 [D]	22-502	AK		Е	
DHAi-0151QSZZ	30- 19	AU	N	В	
DHA i - 0167QSZZ	30- 19	BA	N	В	
DHAi-0200QSZZ	11- 9	AS		С	
//	29- 37	AS		С	
DHAi-0314QSZZ	21- 50	AH	Ν	С	
DHAi-0345QSZZ	13- 30	AG	N	С	
// DUA: 02460677	29- 22 13- 4	AG AP	N N	C	
DHAi-0346QSZZ	13- 4 29- 38	AP	N	C	
DHA i -0347QSZZ	13- 4	AN	N	C	
//	29- 38	AN	N	C	
DHAi-0348QSZZ	29- 42	AH	N	C	
DHAi-0350QSZZ	16- 21	AG	Ν	С	
DHAi-0353QSZZ	14- 14	AH	N	С	
//	29- 28	AH	N	С	
DHA i - 0354QSZZ DHA i - 0355QSZZ	14- 55 14- 56	AG AG	N N	C	
DHA i -0353QSZZ	19- 13	AP	N	C	
DHA i -0360QSZZ	20- 49	AE	N	C	
DHAi-0361QSZZ	9- 5	AE	N	C	
DHAi-0362QSZZ	9- 14	AD	N	С	
DHAi-0364QSZZ	26- 19	AP	N	С	
//	27- 10	AP	N	С	
//	29- 35	AP	N	С	
DHA i -0365QSZZ DHA i -0366QSZZ	28- 10 23- 9	AH AL	N N	C	
DHA i = 0367QSZZ	23- 9	AF	N	C	
DHA i -0368QSZZ	23- 7	AD	N	C	
DHAi-0370QSZZ	3- 11	AF	N	С	
DHAi-0371QSZZ	29- 40	AR	N	С	
//	30- 7	AR	N	С	
DHA i -0372QSZZ DHA i -0373QSZZ	29- 6 14- 10	AΕ	N	С	
## DHA I = 03 / 3QSZZ	14- 10 29- 39	AS AS	N N	C	
DHAi-0374QSZZ	29- 39	AX	N	C	
DHA i -0375QSZZ	30- 2	AM	N	C	
DHAi-0376QSZZ	25- 25	AD	N	C	
DHAi-0377QSZZ	30- 31	AP	N	С	
DHAi-0378QSZZ	30- 8	AC	N	С	
DHA: 0381QSZZ	29- 43	AH	N	С	
DHA i = 0382QSZZ	5- 3	BA	N	С	
DHAi-0384QSZZ	7- 18 8- 2	AR AR	N N	C	
DHA i -0386QSZZ	4- 35	AK	N	C	
DHA i -0387QSZZ	6- 44	AH	N	C	
DHAi-0388QSZZ	5- 13	AE	N	C	
DHAi-0390QSZZ	6- 22	AC	N	С	
DHAi-0392QSZZ	29- 29	AU	N	С	
//	35- 4	AU	N	С	
DHA i = 0394QSZZ	33- 29	AD	N N	С	
DHA i -0395QSZZ	29- 41 33- 31	AG AG	N N	C	
DHA i - 0396QSZZ	35- 31	AD	N	C	
DHA i -0397QSZZ	33- 17	AD	N	C	
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PARTS CODE	NO.	PRICE		PART	
		RANK	MARK	RANK	
DHAi-0398QSZZ	17- 20	AE	N	С	
DHAi-0399QSZZ	16- 31	AF	N	С	
DUNTK0034QSZZ	11- 8	BC		С	
DUNTK0384RSZZ	14- 1	BW	N	E	
DUNTW0375RS12	23-901	BZ	N	Е	
//	24-901	BZ	N	E	
[G]					
GCAB-0030QSZA	31- 1	AN	N	D	
GCAB-0039QSZB	2- 16	AX	N	D	
GCAB-0042QSZB	2- 1	AQ	Ν	D	
GCAB-0043QSZB	2- 6	AN	Z	D	
GCAB-0074QSZZ	4- 9	AK	Ν	D	
GCAB-0075QSZZ	4- 1	AR	Ζ	D	
GCAB-0076QSZZ	6- 1	AP	N	D	
GCAB-0077QSZZ	6- 24	AQ	N	D	
GCAB-0078QSZZ	4- 20	AV	N	D	
GCAB-0080QSZZ	1- 2	AN	N	D	
GCAB-0081QSZZ	1- 1	AN	N	D	
GCAB-0083QSZZ	2- 24	AW	N	D	
GCAB-0084QSZZ	1- 6	AV	N	D	
GCAB-0085QSZZ	2- 8	AZ	N	D	
GCAB-0086QSZZ	9- 24	AV	N	D	
GCASP0005QSZ2	32- 5	BA	N	D	
GCASP0006QSZZ	15- 5	BA	N	D	
GCOV-0029QSZ1	2- 4	AR	N	D	
GCOV-0031QSZZ	2- 10	AK		D	
GCOV-0034QSZB	2- 9	AK	N	D	
GCOV-0042QSZZ	2- 38	AK		D	
GCOV-0043QSZ1	2- 17	AS		D	
GCOV-0052QSZZ	2- 21	AY	N	D	
GCOV-0053QSZ1	2- 22	AG	N	D	
GCOV-0054QSZZ	2- 20	AX	N	D	
GCOV-0055QSZZ	2- 19	AN	N	D	
GCOV-0056QSZZ	2- 5	AH	N	D	
GCŌV-0057QSZZ	9- 1	AT	N	D	
GCOVA0025QSZB	31- 5	AS	N	D	
GCOVA0023Q3ZB	34- 10	AP	N	D	
GDOR-0002QSZC	18- 2	AY	14	D	
GDOR 0002Q32C	2- 13	AP		D	
GLEGG0064FCZZ [H]	31- 15	AC		С	
HPNLH0030QSZZ	9- 7	BC	N	D	
	9- 7	ВС	IN	D	
[J]	15 00	۸۱/	N.I	_	
JHNDP0004QSZZ JHNDP0005QSZZ	15- 23 32- 23	AV AY	N N	C	
JKNBZ0006QSZZ			IN	_	
JKNBZ0009QSZZ		AD AE	N	C D	
[L]	7- 37	AL	IN	U	
LANGF0013QSZZ	21- 47	AD		С	
	14- 69				
LBNDJ0013FCZ1		ΑE		C	
	20- 43 2- 25	AE	N	C	
LBNDZ0002QSZZ LBŌSZ1508FCZZ	2- 25 20- 14	AC AG	IN	C	
LBOSZ1508FCZZ	20- 14	AG		C	
LBRC-0002QSZZ	27- 15	AF		C	
LBRC-0002QSZZ	26- 5	AD		C	
LBRC-0012QSZZ	17- 44	AD		C	
LBSHZ0006QSZZ	20- 51	AC		C	
LBSHZ0303FCZZ	18- 4	AC		C	
//	20- 13	AC		C	
"	26- 25	AC		C	
"	27- 16	AC		C	
<i>"</i>	28- 23	AC		C	
LCRA-0002QSZZ	13- 17	AC		C	
LDA i -0002QSZZ	10- 11	BH	N	D	
	36- 3	AH	N	D	
LDAiU0024QSZ1 LFiX-0009QSZZ	11- 10	AF	IN	D	
LF i X-0009QSZZ	1- 10	AF	N	D	
LFIX-0011QSZB	1- 8	AK	N	D	
LF i X-0012QSZB	22- 19	AE	IN	С	
LF i X-0014QSZZ	22- 19	AE		C	
LF i X-0016FCZZ	30- 32	AD		C	
LFRM-0037QSZ2	14- 43	BA	N	D	
LFRM-0037QSZZ	31- 7	BK	N	D	
	18- 16	AV	IN	D	
	10- 10	AG			
LFRM-0040QSZZ	20 F			D	
LFRM-0047QSZZ	28- 5		NI	٦	
LFRM-0047QSZZ LFRM-0048QSZC	20- 37	AT	N	D	
LFRM-0047QSZZ LFRM-0048QSZC LFRM-0058QSZZ	20- 37 28- 6	AT AG		D	
LFRM-0047QSZZ LFRM-0048QSZC LFRM-0058QSZZ LFRM-0069QSZZ	20- 37 28- 6 6- 36	AT AG AQ	N	D C	
LFRM-0047QSZZ LFRM-0048QSZC LFRM-0058QSZZ	20- 37 28- 6	AT AG		D	

PARTS CODE	NO.	PRICE RANK	NEW MARK	PART RANK	
LHLDR0072QSZZ	21- 31	AC		С	
LHLDW0086QSZZ	23- 11	AB		С	
LHLDW1009ACZZ	29- 9 13- 5	AB AA		C	
LHLDW1057FCZZ	30- 30	AB		C	
LHLDW1061FCZZ	10- 14	AB		С	
LHLDW1226FCZZ	15- 2 32- 2	AB		C	
//	32- 2 37- 10	AB AB		C	
LHLDW1334FCZZ	27- 34	AA		C	
LHLDZ0001YSZZ	21- 35	AD		С	
LHLDZ0047QSZ2	11- 3	AW AC		CC	
LHLDZ0056QSZZ LHLDZ0057QSZZ	12- 10 14- 9	AH		C	
LHLDZ0058QSZZ	26- 12	AR		C	
LHLDZ0062QSZ2	29- 7	AT		С	
LHLDZ0065QSZ1	14- 37	AF		С	
LHLDZ0066QSZZ LHLDZ0070QSZ2	19- 10 29- 16	AD AX	N	C	
LHLDZ0071QSZZ	29- 12	AG	14	C	
LHLDZ0084QSZZ	18- 20	AF		С	
LHLDZ0085QSZZ	14- 28	AE		С	
LHLDZ0090QSZZ LHLDZ0094QSZZ	22- 36 17- 38	AC AC		C	
LHLDZ0194QSZZ	5- 23	AE	N	C	
LHLDZ0102QSZZ	7- 27	AC	N	C	
LHLDZ0103QSZZ	8- 28	AC	N	С	
LHLDZ0104QSZZ	13- 19	AD	N	С	
LHLDZ0105QSZZ LHLDZ7021XCZZ	9- 9 13- 25	AG AD	N	C	
LPiN-0026MCZZ	16- 16	AA		C	
//	33- 22	AA		Č	
LPiNS0014QSBZ	9- 27	AF		С	
LPiNS0014QSCZ	9- 26	AF		С	
LPiNS0133FCZZ LPiNS0258FCZZ	18- 6 27- 19	AA AA		C	
LPiNS0300FCZZ	14- 52	AD		C	
LPiNS0301FCZZ	14- 52	AD		C	
LPiNS0327FCZZ	5- 25	AC		С	
LPLTM0001YSZZ	21- 25	AN		С	
LPLTM0002YSZ2 LPLTM0090QSZZ	21- 26 18- 28	AP AE		C	
LPLTM0091QSZZ	18- 29	AE		C	
LPLTM0102QSZZ	18- 19	AD		С	
LPLTM0111QSZZ	5- 4	AC		С	
LPLTM0149QSZZ LPLTM0162QSZZ	14- 16 30- 5	AD AC		C	
LPLTM0163QSZZ	10- 1	AK		C	
LPLTM0165QSZ1	10- 20	AS	N	C	
LPLTM0166QSZZ	10- 22	AC		С	
LPLTM0176QSZZ	35- 33	AH		С	
LPLTM0179QSZ1	15- 3 32- 3	AR AR		C	
LPLTM0180QSZ1	15- 20	AE		C	
"	32- 20	AE		С	
LPLTM0181QSZ1	15- 8	AB		С	
" LPLTM0194QSZZ	32- 8 14- 45	AB AC		O O	
LPLTM0194Q3ZZ	26- 9	AC		C	
LPLTM0203QSZ1	35- 20	AF		C	
LPLTM0232QSZ1	10- 3	AU	N	С	
LPLTM0236QSZZ LPLTM0237QSZZ	31- 8 31- 16	AG AH		C	
LPLTM0237QSZZ	31- 16 31- 3	AH		C	
LPLTM0240Q3ZZ	22- 4	AF		C	
LPLTM0248QSZZ	14- 29	AE		С	
LPLTM0249QSZZ	30- 15	AC		С	
LPLTM0251QSZZ LPLTM0252QSZZ	10- 24 30- 6	AE AD		C	
LPLTM0252QSZZ	17- 35	AE		C	
LPLTM0277QSZZ	15- 27	AC		C	
//	32- 27	AC		С	
LPLTM0316QSZZ	5- 32	AH	N	С	
LPLTM0318QSZZ LPLTM0322QSZZ	6- 12 8- 29	AC AF	N N	C	
LPLTM0323QSZZ	8- 31	AG	N	C	
LPLTM0325QSZZ	7- 16	AH	N	С	
LPLTM0326QSZZ	7- 43	AM	N	С	
LPLTM0327QSZZ	7- 9	AD	N	С	
LPLTM0331QSZZ LPLTM0332QSZZ	9- 30 10- 46	AC AE	N N	C	
LI LIWIUSSZUSZZ	10- 40	ΑĽ	IN	U	

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PARTS CODE	NO.	PRICE RANK	NEW MARK	PART RANK	
LPLTM0333QSZZ	10- 16	AX	N	С	
LPLTM0334QSZZ	23- 16	AE	N	C	
LPLTM0335QSZZ	23- 22	AF	N	С	
LPLTM0337QSZZ	23- 25	AC	N	С	
LPLTM0338QSZZ	23- 13	AC	N	С	
LPLTM0339QSZZ	23- 20	AC	N	С	
LPLTM0340QSZZ LPLTM0344QSZZ	24- 9 24- 7	AC AC	N N	C	
LPLTM0344Q3ZZ	9- 29	AC	N	C	
LPLTM0349QSZZ	30- 37	AS	N	C	
LPLTM4715FCZ1	11- 14	AF		Č	
LPLTM6022FCZZ	21- 20	AC		С	
LPLTP0056QSZ3	20- 39	AD		С	
LPLTP0117QSZZ	5- 40	AM		С	
LPLTP0131QSZZ	7- 36	AD		С	
LPLTP0159QSZZ	15- 1 32- 1	AD AD		C	
LPLTP0185QSZ1	26- 13	AL		C	
LPLTP0230QSZZ	13- 13	AF		C	
LPLTP0234QSZZ	19- 15	AE		Č	
LPLTP0297QSZZ	17- 24	AC		С	
//	34- 13	AC		С	
LPLTP0319QSZZ	4- 33	AH	N	С	
LPLTP0320QSZZ	4- 34	AH	N	С	
LPLTP0321QSZZ	4- 19	ΑE	N	С	
LPLTP0324QSZZ LPLTP0328QSZZ	7- 41 7- 5	AH AC	N N	C	
LPLTP0328QSZZ	17- 13	AC	IN	C	
LRALM0006QSZZ	12- 13	AG		C	
LRALM0007QSZ1	12- 12	AG		C	
LRALP0004QSZ2	18- 31	AH		С	
LRALP0008QSZ1	17- 18	AQ		С	
LRALP0009QSZZ	34- 19	AQ		С	
LSOU-0024QSZB	19- 4	AT	N	D	
LSOU-0025QSZB	19- 18	AS	N	D	
LSOU-0026QSZB LSŌU-0027QSZB	19- 11 19- 20	AU	N N	D D	
LSŌU-0037QSZZ	4- 14	BE	N	C	
//	5- 43	BE	N	C	
LSŌU-0038QSZZ	4- 31	AW	N	С	
LSOU-0039QSZZ	4- 21	AN	N	C	
LSOU-0040QSZZ	3- 14	BB	N	D	
LSŌU-0041QSZZ	4- 32	AP	N	С	
LSTPP0003QSZ1 LSTPP0010QSZZ	27- 6 14- 33	AC AD		C	
LSTPP0010QSZZ	20- 52	AC		C	
//	34- 18	AC		C	
LSTPP0015QSZZ	6- 47	AC	N	Č	
LSTPP0016QSZZ	4- 4	AC	N	С	
//	6- 21	AC	N	С	
LSTPP0017QSZZ	23- 18	AF	N	С	
LX-BZ0004QSZZ	12- 11	AB		С	
LX-BZ0015QSZZ	13- 29 37- 8	AB AF		C D	
LX-BZ0015QSZZ	37- 8 14- 15	AF		С	
LX-BZ0024QSZZ	12- 34	AA		C	
//	1- 5	AA		Č	
//	2- 37	AA		С	
//	29- 15	AA		С	
LX-BZ0026QSZZ	21- 36	AD		С	
LX-BZ0030QSZZ	3- 12	AC		С	
LX-BZ0031GCZZ LX-BZ0031QSZZ	13- 33 29- 8	AB AC		C	
LX-BZ0031QSZZ	18- 38	AB		C	
LX-BZ003ZQ3ZZ	31- 23	AB	N	C	
LX-BZ0040QSZZ	23- 17	AC	N	C	
LX-BZ0049FCZZ	12- 25	AB		С	
LX-BZ0324FCZZ	12- 28	AA		С	-
LX-BZ0406FCZZ	22- 37	AA		C	
LX-BZ0780FCZZ	26- 35 15- 14	AC		C	
LX-BZ0833FCZZ	15- 14 32- 14	AC AC		C	
LX-BZ0884FCZZ	15- 10	AB		C	
//	32- 10	AB		C	
LX-NZ0002QSZZ	23- 6	AA	N	Ċ	
LX-RZ0001QSZZ	22- 27	AB		C	
LX-WZ0001QSZZ	23- 37	AC		С	-
LX-WZ0119FCZZ	12- 31	AA		С	
LX-WZ0329FCZZ LX-WZ7021SCZZ	22- 26	AB		С	
	23- 21	AA		C	

PARTS CODE	NO.	PRICE RANK	NEW MARK	PART RANK	
[M] MARMM0047QSZZ	6- 20	AE	N	С	
MARMP0006QSZZ	20- 19	AD		C	
MARMP0008QSZZ	20- 38	AH		С	
MARMP0009QSZZ MARMP0015QSZZ	20- 8	AF AD		C	
MARMP0018QSZZ	34- 5 35- 6	AD		C	
MARMP0019QSZZ	16- 11	AD		Č	
//	33- 24	AD		С	
MARMP0021QSZZ	16- 15 33- 20	AD		C	
MARMP0025QSZZ	33- 20 14- 5	AD AD		C	
MARMP0026QSZZ	16- 9	AD		C	
//	33- 10	AD		С	
MARMP0027QSZ1	20- 36	AE AE		С	
MARMP0041QSZZ MARMP0043QSZZ	20- 18 18- 9	AC		C	
MARMP0044QSZZ	6- 35	AF	N	C	
MARMP0045QSZZ	6- 49	AC	N	С	
MARMP0046QSZZ	6- 31	AD	N	С	
MARMP0048QSZZ MCAMP003QSZZ	23- 1 20- 21	AF AD	N	C	
MHNG-0021QSZZ	4- 10	AX	N	C	
MHNG-0022QSZZ	4- 11	AX	N	С	
MLEVF0093QSZZ	5- 11	AE	N	С	
MLEVP0023QSZZ MLEVP0035QSE1	17- 11 19- 16	AE AC		C	
MLEVP0035Q3E1	5- 10	AD		C	
MLEVP0044QSZZ	17- 12	AE		Č	
MLEVP0055QSZ1	26- 15	AC		С	
MLEVP0056QSZZ MLEVP0057QSZZ	16- 5 17- 22	AC AC		C	
MLEVP0057Q32Z	18- 1	AD	N	C	
MLEVP0062QSZZ	33- 7	AC		C	
MLEVP0063QSZZ	16- 4	AD		С	
// MLEVP0064QSZZ	33- 5	AD AD		С	
WLEVP0064Q5ZZ //	16- 3 33- 6	AD		C	
MLEVP0065QSZZ	22- 5	AE		C	
MLEVP0067QSZ1	28- 25	AC		С	
MLEVP0068QSZZ	3- 10	AC		С	
MLEVP0069QSZZ MLEVP0071QSZZ	2- 12 14- 35	AD AD		C	
MLEVP0077QSZZ	13- 16	AC		Č	
MLEVP0092QSZZ	5- 16	AC	N	С	
MLEVP0095QSZZ	7- 30	AD	N	С	
MLEVP0096QSZZ MLEVP0097QSZZ	6- 48 6- 46	AC AC	N N	C	
MLEVP0098QSZZ	4- 22	AC	N	C	
MLEVP0099QSZZ	23- 34	AF	N	С	
MLEVP0100QSZZ	23- 2	AE	N	С	
MLEVP0101QSZZ MLEVP0104QSZZ	23- 3 20- 50	AE AD	N N	C	
MLEVP0755FCZ1	15- 13	AE	IV	C	
//	32- 13	AE		С	
MLNKP0001QSZZ	6- 4	AD	N	С	
MLOKZ0001QSZZ MSLi-0138FCZZ	34- 2 11- 4	AC AC		С	
MSPRC0040QSZZ	12- 16	AB		С	
MSPRC0045QSZZ	22- 14	AA		C	
MSPRC0063QSZZ	7- 17	AB		С	
MSPRC0141QSZZ MSPRC0153QSZZ	34- 1 7- 34	AB AB		C	
MSPRC0153QSZZ MSPRC0195QSZZ	7- 34 14- 48	AB		C	
MSPRC0200QSZZ	25- 4	AB		C	
MSPRC0209QSZ1	16- 24	AC		С	
// MCDDC00100C77	33- 11	AC		С	
MSPRC0210QSZZ	15- 18 32- 18	AC AC		C	
MSPRC0213QSZZ	22- 30	AB		C	
MSPRC0220QSZZ	14- 34	AB		С	
MSPRC0250QSZZ	19- 6	AC		С	
// MSPRC0262QSZZ	4- 27 25- 21	AC AC		C	
MSPRC0262QSZZ MSPRC0263QSZZ	36- 13	AC		C	
MSPRC0270QSZZ	17- 26	AB		С	
//	34- 16	AB		С	
MSPRC0271QSZZ	14- 63 17- 4	AC AC		C	
MSPRC0291QSZZ MSPRC0292QSZZ	17- 4	AC		C	
MSPRC0295QSZZ	18- 23	AF		C	
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PARTS CODE	NC).	PRICE RANK	NEW MARK	PART RANK	
MSPRC0296QSZZ	18-	22	AF		С	
MSPRC0301QSZZ	17-	14	AD	N	С	
MSPRC0307QSZ1	5-	34	AC	N	С	
MSPRC0323QSZZ	23-	24	AC	N	С	
MSPRC0324QSZZ	24-	3	AC	N	С	
MSPRC0325QSZZ	24-	6	AB	N	С	
MSPRC0346QSZZ MSPRC0348QSZZ	8- 18-	34 18	AC AD	N N	C	
MSPRC0349QSZZ	18-	17	AD	N	С	
MSPRC1315FCZ1	20-	15	AD	- ' '	Č	
MSPRC1316FCZ1	20-	22	AE		C	
MSPRC1318FCZ1	14-	51	AA		С	
//	20-	33	AA		С	
MSPRC2175FCZZ	20-	31	AA		С	
MSPRC2631FCZZ	15-	12	AC		С	
// MSPRD0092QSZZ	32-	12	AC AE		С	
MSPRD0092QSZZ MSPRD0189QSZZ	20-	28 11	AB		C	
MSPRD0199Q3ZZ	14-	11	AD		C	
MSPRD0191QSZ1	14-	12	AD		C	
MSPRD0192QSZ1	14-	13	AD		Č	
MSPRD0194QSZ1	17-	3	AD		C	
MSPRD0196QSZZ	27-	26	AC		C	
MSPRD0198QSZZ	27-	23	AC		С	
MSPRD0201QSZZ	16-	6	AC		С	
MSPRD0202QSZZ	17-	21	AB		С	
MSPRD0204QSZZ	33-	30	AC		С	
MSPRD0205QSZZ MSPRD0206QSZZ	18- 16-	30 18	AE AC		C	
// WSPRD0206Q322	33-	19	AC		C	
MSPRD0208QSZZ	36-	12	AC		C	
MSPRD0211QSZZ	5-	14	AC		Č	
MSPRD0216QSZZ	27-	13	AD		С	
MSPRD0218QSZZ	28-	11	AD		С	
MSPRD0222QSZZ	18-	8	AC		С	
MSPRD0224QSZZ	26-	14	AB		С	
MSPRD0225QSZZ	27-	5	AC		С	
MSPRD0232QSZZ	13-	15	AB		С	
MSPRD0233QSZ1	17-	10	AC		C	
MSPRD0251QSZZ MSPRD0276QSZZ	36- 10-	12 50	AD AS		C	
//	31-	24	AS		C	
MSPRD0277QSZZ	31-	25	AN		Č	
MSPRD0287QSZZ	17-	40	AC		С	
//	34-	27	AC		С	
MSPRD0302QSZZ	20-	45	AC		С	
MSPRD0305QSZZ	5-	24	AC	N	С	
MSPRD0309QSZZ	6-	5	AC	N	С	
MSPRD0310QSZZ MSPRD0313QSZZ	6-	28	AC AC	N	С	
MSPRD0313Q3ZZ MSPRD0314QSZZ	6-	50 14	AD	N N	C	
MSPRD0314Q3ZZ	7-	40	AC	N	C	
MSPRD0322QSZZ	23-	33	AC	N	C	
MSPRD0326QSZZ	24-	17	AC	N	C	
MSPRD0327QSZZ	24-	15	AC	N	С	
MSPRD0328QSZZ	24-	11	AC	N	С	
MSPRD0329QSZZ	20-	46	AC	N	С	
MSPRD0340QSZZ	17-		AC	N	С	
MSPRD0342QSZZ MSPRD0347QSZZ	5- 20-	9 20	AD AD	N N	C	
MSPRK0001YSZZ	21-	33	AB	IN	C	
MSPRP0123QSZZ	5-	35	AD		C	
MSPRP0145QSZZ	11-	6	AF		C	
MSPRP0306QSZZ	5-	31	AC	N	C	
MSPRP0311QSZZ	6-	26	AC	N	C	
MSPRP0312QSZZ	8-	21	AD	N	С	
MSPRP0315QSZZ	4-	30	AD	N	С	-
MSPRP0345QSZZ	34-	8	AD	N	С	
MSPRP2830FCZZ	19-	14	AA		С	
MSPRT0091QSZZ	20-	9	AC		С	
MSPRT0197QSZZ MSPRT0203QSZZ	26- 35-	16	AB AC		C	
MSPRT0203QSZZ MSPRT0214QSZZ	22-	10 28	AB		C	
MSPRT0214Q322 MSPRT0217QSZ1	27-	14	AC		C	
MSPRT0221QSZZ	14-	39	AB		C	
MSPRT0229GCAZ	2-	15	AC		C	
//	26-	28	AC		C	
"	28-	7	AC		Č	
MSPRT0257QSZ1	23-	32	AC		С	
MSPRT0308QSZZ	5-	36	AC	N	С	
MSPRT0317QSZZ	8-	27	AC	N	С	

PARTS CODE	NO.	PRICE RANK	NEW MARK	PART RANK	
[N] NBLTT0002QSZZ	12- 29	AH		В	
NBLTT0002QSZZ NBLTT0024QSZZ	27- 29	AG		В	
NBLTT0026QSZZ	10- 19	AF		В	
NBLTT0029QSZZ	35- 25	AG		В	
NBLTT0033QSZZ	6- 42	AF	N	В	
NBLTT0034QSZZ	8- 10	AF	N	В	
NBLTT0035QSZZ	8- 18	AE	N	В	
NBLTT0036QSZZ NBLTT0038QSZZ	7- 38 10- 45	AF AF	N N	B B	
NBRGC0017QSZZ	7- 39	AC	14	C	
//	8- 23	AC		Č	
NBRGC0018QSZZ	14- 31	AD		С	
"	4- 13	AD		С	
//	6- 17	AD		С	
NBRGC0019QSZZ NBRGC0020QSZZ	27- 18 21- 11	AD AH		C	
NBRGC0020QSZZ NBRGC0021QSZZ	21- 11	AD		C	
NBRGC0100FCZ1	16- 19	AC		C	
//	33- 18	AC		Č	
//	35- 5	AC		С	
NBRGC0529FCZZ	35- 32	AD		С	
NBRGM0096FCZ1	6- 7	AC		С	
NBRGM0501FCZZ	26- 10	AB		С	
<i>"</i>	28- 16 5- 28	AB AB		C	
"	7- 22	AB		C	
"	8- 12	AB		C	
NBRGP0011QSZZ	12- 33	AC		С	
NBRGP0012QSZZ	12- 22	AC		С	
NBRGP0025QSZZ	23- 29	AN	N	С	
NBRGP0041GCZZ	15- 21 32- 21	AD AD		C	
"	5- 41	AD		C	
NBRGP0299FCZZ	22- 23	AC		C	
NBRGY0022QSZZ	24- 1	AL		Č	
NBRGY2122SCZZ	26- 8	AB		С	
//	27- 17	AB		С	
//	28- 20	AB		С	
NBRGZ0503FCZZ NCPL-0003QSZZ	34- 17 22- 7	AC AC		C	
NCPL - 0003Q3ZZ	25- 22	AC		C	
NCPL-0011QSZZ	14- 49	AC		Č	
NCPL-0012QSZZ	20- 47	AD		С	
NCPL-0049FCBZ	6- 37	AT		С	
NFANP0004QSZZ	26- 31	BB		В	
NFANPOO11QSZZ	30- 38	AS	N	В	
NFANP0015QSZZ NGERH0001YSZZ	3- 5 21- 14	BA AD	N	B C	
NGERH00011322	21- 14	AD		C	
NGERH0010QSZZ	25- 12	AD		Č	
NGERH0011QSZZ	25- 17	AD		C	
NGERH0027QSZZ	12- 30	AH		С	
NGERH0036QSZZ	22- 16	AC		С	
NGERH0037QSZZ NGERH0038QSZZ	22- 20	AC		С	
NGERH0038QSZZ NGERH0039QSZZ	22- 21 22- 18	AC AE		C	
NGERH0061QSZZ	20- 7	AD		C	
NGERH0067QSZZ	27- 8	AD		C	
NGERH0068QSZ1	27- 7	AD		С	
NGERH0074QSZZ	18- 5	AD		С	
NGERH0080QSZZ	27- 21	AE		С	
NGERH0082QSZZ NGERH0083QSZZ	27- 22 25- 24	AD AH		C	
NGERH0083Q3ZZ	25- 24	AK		C	
NGERH0085QSZZ	25- 9	AE		C	
NGERH0086QSZZ	25- 10	AD		С	
NGERH0087QSZZ	25- 11	AE		С	
NGERH0090QSZZ	25- 6	AE		С	
NGERHOO91QSZZ	25- 23	AE		С	
NGERH0092QSZZ NGERH0093QSZZ	25- 13 25- 14	AD AD		C	
NGERH0093Q3ZZ	25- 14	AE		C	
NGERH0096QSZZ	25- 19	AE		C	
NGERH0097QSZZ	16- 20	AF		С	
NGERH0102QSZZ	36- 4	AD		С	
NGERH0103QSZZ	36- 6	AE		С	
NGERH0104QSZZ NGERH0105QSZZ	36- 9 36- 10	AE AD		C	
NGERH0105QSZZ NGERH0107QSZZ	16- 17	AD		C	
// // // // // // // // // // // // //	33- 21	AD		C	

PARTS CODE	NC).	PRICE RANK	NEW MARK	PART RANK	
NGERH0108QSZZ	15-	17	AD	IVIALIIX	С	
//	32-	17	AD		C	
NGERH0110QSZZ	28-	18	AE		С	
NGERH0111QSZZ NGERH0112QSZZ	28- 28-	17 19	AC AC		C	
NGERH0112Q3ZZ	27-	24	AC		C	
NGERH0114QSZZ	27-	25	AC		C	
NGERH0116QSZ1	8-	13	AD		С	
NGERH0117QSZZ NGERH0119QSZZ	8-	15	AK		C	
NGERHO119QSZZ NGERH0121QSZZ	35- 35-	11 24	AD AE		C	
NGERH0136QSZZ	21-	16	AD		Č	
NGERH0152QSZZ	25-	18	AH		С	
NGERH0153QSZZ	25-	5	AH		С	
NGERH0155QSZZ NGERH0156QSZZ	27- 16-	27 23	AD AD		C	
NGERH0158QSZ1	36-	2	AE		Č	
NGERH0163QSZ2	18-	39	AG	N	С	
NGERH0166QSZZ	6-	2	AC	N	С	
NGERH0167QSZZ	6-	6	AD	N	С	
NGERH0170QSZZ NGERH0171QSZZ	8- 23-	11 28	AD AR	N N	C B	
NGERH0173QSZZ	10-	8	AD	N	C	
NGERH0174QSZZ	10-	43	AD	N	C	
NGERH0193FCZZ	15-	11	AB		С	
//	32-	11	AB		С	
NGERH0495FCZZ NGERH0972FCZZ	20-	5 26	AC AB		C	
NGERH0990FCZZ	16-	13	AB		C	
//	33-	26	AB		C	
NGERH1207FCZZ	35-	12	AF		С	
NGERP0168QSZZ	4-	25	AD	N	С	
NGERP1385FCZZ NGERR0140QSZZ	19- 19-	9 7	AF AD		C	
NGERR0169QSZZ	4-	26	AE	N	C	
NKŌM-0005QSZZ	10-	26	AC		Ċ	
//	17-	27	AC		С	
"	31-	13	AC		С	
// NKŌM-0006QSZZ	34- 17-	21 6	AC AC		C	
NKOM-0000Q3ZZ	7-	29	AC	N	C	
//	8-	26	AC	N	С	
NKŌM-0009QSZZ	17-	45	AC		С	
NPLYZ0003QSZZ NPLYZ0004QSZZ	12-	24	AM		C	
NPLYZ0004QSZZ	12- 12-	23	AG AD		C	
NPLYZ0016QSZZ	12-	3	AF		C	
NPLYZ0018QSZZ	8-	24	AE		В	
NPLYZ0019QSZZ	7-	25	AE		В	
" NPLYZ0027QSZZ	8- 35-		AE AD		B C	
NPLYZ0037QSZZ	4-	6	AD	N	В	
//	6-	18	AD	N	В	
NPLYZ0034QSZZ	6-	41	AD	N	В	
NPLYZ0035QSZZ		38	AD	N	В	
NPLYZ0036QSZZ NROLM0037QSZ4	10- 26-	9 7	AD AR	N	C	
NROLM0037Q3Z4	23-	27	BE	N	C	
NRŌLM0108QSZZ		22	BA	N	C	
NROLP0008QSZZ		30	AD		С	
NRŌLP0010QSZZ	5-		AD		В	
// NRŌLP0011QSZZ		29 18	AD AD		B B	
NRŌLP0036QSZZ	18-	12	AP		C	
NRŌLP0049QSZZ	26-	3	AC		C	
NRŌLP0072QSZ1	21-	9	AP		С	
NRŌLP0079QSZZ	26-	4 14	AC		C	
NRŌLP0087QSZZ	28- 17-		AC AD		C	
//	34-	28	AD		Č	
NRŌLP1060FCZZ	2-	14	AF		C	
//	34-	7	AF		С	
NRŌLP1122FCZZ	18- 26-	15 27	AF AF		C	
"	28-	8	AF		C	
NRŌLR0051QSZ1	26-		AL		C	
//		22	AL		С	
NRŌLR0052QSZZ	34-	_	AN		C	
NRŌLR0054QSZZ	16- 33-	10 27	AP AP		C	
NRŌLR0055QSZ1	16-	14	AR		C	
		• •				

PARTS CODE	NO.	PRICE RANK	NEW MARK	PART RANK	
NRŌLR0055QSZ1	33- 23	AR		С	
NRŌLR0056QSZ1	28- 9	AN		С	
NRŌLR0089QSZZ NRŌLR0094QSZZ	14- 30 7- 13	AQ AR	N	C B	
NRŌLR0095QSZZ	7- 14	AR	N	В	
NRŌLR0096QSZZ	7- 12	AR	N	В	
NRŌLR0097QSZZ	7- 42	AR	N	В	
NRŌLR0922FCZ2	20- 4	AR		С	
NRŌLR1267FCZ1 NRŌLR1311FCZZ	20- 10	AH		C	
NROLR1311FCZZ NROLR1312FCZZ	6- 39 6- 40	AN AN		B B	
NROLS0100QSZZ	24- 2	BB	N	C	
NSFTB0075QSZZ	6- 10	AF	N	С	
NSFTZ0009QSZZ	5- 29	AE		С	
//	6- 30	AE		С	
NSFTZ0013QSZZ	5- 21	AF		C	
NSFTZ0017QSZZ NSFTZ0020QSZZ	20- 25 22- 22	AG AL		C	
NSFTZ0028QSZ1	12- 27	AS	N	C	
NSFTZ0042QSZZ	26- 1	AF		Ċ	
NSFTZ0043QSZ1	16- 29	AH		С	
NSFTZ0044QSZZ	36- 7	AC		С	
NSFTZ0045QSZZ	36- 5	AC		С	
NSFTZ0047QSZZ	15- 19 32- 19	AP AP		C	
NSFTZ0048QSZZ	10- 25	AG		C	
//	17- 28	AG		C	
//	31- 12	AG		Č	
//	34- 22	AG		С	
NSFTZ0050QSZ1	33- 13	AH		С	
NSFTZ0054QSZZ NSFTZ0055QSZ1	34- 6 18- 10	AE AN		C	
NSFTZ0060QSZZ	36- 8	AC		C	
NSFTZ0064QSZZ	17- 42	AD		Č	
//	17- 46	AD		С	
//	34- 29	AD		С	
NSFTZ0065QSZZ	17- 5	AD		С	
NSFTZ0072QSZZ	5- 26	AP	N	С	
NSFTZ0074QSZZ NSRW-0002QSZZ	6- 15 22- 3	AF AE	N	C	
(P)	22- 0	AL			
PBOX-0001YS13	21- 18	AM		D	
PBŌX-0006QSZZ	3- 8	AF		D	
PBOX-0016QSZZ	3- 3	AN	N	С	
PBRSR0019QSZZ PBRSR0020QSZ1	26- 6 28- 4	AK AH		B B	
PBRSR0021QSZ1	28- 3	AG		В	
PBRSS0008QSZ1	7- 44	AH		В	
PCAPH0009QSZZ	22- 2	AC		D	
PCAPH0023FCZZ	29- 30	AC		D	
PCAPH1003ACZZ	29- 31	AC		D	
PCAPH1005ACZZ	29- 32	AC		D	
PCASZ0010QSZZ PCLC-0006QSZZ	13- 24 14- 19	AL AU		D B	
PCLC-0011QSZZ	35- 26	AS		В	
PCLC-0012QSZZ	16- 28	AS		В	
PCLC-0014QSZZ	35- 7	AS		В	
PCLC-0017QSZZ	4- 5	AT	N	В	
// PCLC-0018QSZZ	6- 19 8- 25	AT AT	N N	B B	
PCLC-0018QSZZ PCLC-0316FCZ1	6- 3	AR	IN	В	
PCOVP0053QSZ2	17- 2	AP		D	
PCOVP0055QSZC	20- 1	AL	N	D	
PCOVP0057QSZZ	22- 17	AG		D	
PCOVP0061QSZ1	36- 11	AH		D	
PCOVP0062QSZZ	14- 32	AD	N.I	D	
PCOVP0063QSZB PCOVP0064QSZZ	31- 10 16- 7	AD AD	N	D D	
//	33- 8	AD		D	
PCOVP0066QSZZ	10- 21	AC		D	
PCOVP0070QSZZ	33- 2	AD		D	
PCOVP0072QSZZ	21- 5	AK		D	
PCOVP0073QSZZ	21- 38	AG		D	
PCOVP0075QSZZ	13- 1	AΕ		D C	
PCOVP0084QSZZ PCOVP0085QSZZ	35- 1 3- 2	AE AP		D	
PCOVP0083Q322	17- 25	AD	N	D	
PCOVP0089QSZZ	34- 12	AD		D	
PCOVP0094QSZZ	6- 32	AD	N	С	
PCOVP0095QSZZ	9- 6	AG	N	С	
PCŌVP0096QSZZ	15- 25	AN	N	С	

PARTS CODE NO. PCOVP0096QSZZ 32- 28 PCUSF0334FCZZ 11- 11- 11- 11- 11- 11- 11- 11- 11- 1	PRICE RANK AN AP AB AB AB AW AA AE AG AL AM AQ AE AH AY AR AP AM AM AAL AL	NEW MARK N	PART RANK C C C C C C C C C C C C C C C C C C C	
PCUSF0334FCZZ 11- 11 PCUSG0190FCZ1 12- 20 " 13- 9 PCUSS0011QSZZ 1- 22 PCUSS0022QSZZ 4- 15 PCUSS0027QSZZ 1- 24 PCUSU0203FCZZ 11- 5 PDUC-0003QSZ1 26- 30 PDUC-0004QSZZ 3- 6 PFiLZ0011QSZ1 2- 18 PFTA-0019QSZZ 17- 15 PGiDH0095QSZZ 12- 39 PGiDH0114QSZZ 24- 8 PGiDM0065QSZ1 26- 26 PGiDM0070QSZ1 17- 9 PGiDM0070QSZ1 15- 6 " 32- 6 PGiDM0071QSZZ 15- 9 PGiDM0072QSZ2 28- 21 PGiDM0074QSZZ 28- 21 PGiDM0074QSZZ 34- 23	AP AB AB AB AW AA AE AG AL AM AQ AE AH AH AY AR AP AM AN AC AR AP AM AM AM AM AM AM	N	C C C C C B B C C C C C C C C C C C C C	
PCUSG0190FCZ1 12- 20 " 13- 9 PCUSS0011QSZZ 1- 22 PCUSS0022QSZZ 4- 15 PCUSS0027QSZZ 1- 24 PCUSU0203FCZZ 11- 5 PDUC-0003QSZ1 26- 30 PDUC-0004QSZZ 3- 6 PFiLZ0004QSZZ 26- 32 PFILZ0011QSZ1 2- 18 PFTA-0019QSZZ 17- 15 PGiDH0095QSZZ 12- 39 PGiDH0114QSZZ 24- 8 PGiDM0067QSZ1 17- 9 PGiDM0067QSZ1 17- 9 PGiDM0070QSZ1 15- 6 " 32- 6 PGiDM0071QSZZ 15- 9 PGiDM0072QSZ2 28- 21 PGiDM0074QSZZ 28- 21 PGiDM0074QSZZ 34- 23	AB AB AB AW AA AA AA AA AB AB AB AB AB AB AB AB AB		C C C C C C C C C C C C C C C C C C C	
## 13- 9 PCUSS0011QSZZ 1- 22 PCUSS0022QSZZ 4- 15 PCUSS0027QSZZ 1- 24 PCUSU0203FCZZ 11- 5 PDUC-0003QSZ1 26- 32 PDUC-0004QSZZ 3- 6 PFiLZ0004QSZZ 26- 32 PFiLZ0011QSZ1 2- 18 PFTA-0019QSZZ 17- 15 PGiDH0095QSZZ 12- 39 PGiDH0114QSZZ 24- 8 PGiDM0065QSZ1 26- 26 PGiDM0067QSZ1 17- 9 PGiDM0067QSZ1 17- 9 PGiDM0070QSZ1 15- 6 ## 32- 6 PGiDM0071QSZZ 15- 9 PGiDM0072QSZZ 28- 21 PGiDM0072QSZZ 28- 21 PGiDM0074QSZZ 34- 4	AB AW AA AE AG AL AM AQ AE AH AH AY AR AP AM AM AM AD		C C C C C C C C C C C C C C C C C C C	
PCUSS0022QSZZ 4- 15 PCUSS0027QSZZ 1- 24 PCUSU0203FCZZ 11- 5 PDUC-0003QSZ1 26- 30 PDUC-0004QSZZ 3- 6 PFILZ0004QSZZ 26- 32 PFILZ0011QSZ1 2- 18 PFTA-0019QSZZ 17- 15 PGiDH0095QSZZ 12- 39 PGiDH0114QSZZ 24- 8 PGiDM065QSZ1 17- 9 PGiDM0067QSZ1 17- 9 PGiDM0070QSZ1 15- 6 " 32- 6 PGiDM0071QSZZ 15- 9 PGiDM0072QSZZ 28- 21 PGiDM0074QSZZ 28- 21 PGiDM0074QSZZ 32- 9 PGiDM0074QSZZ 34- 23	AW AA AE AG AL AM AQ AE AH AH AY AR AR AR AR AM AM AM AM AM AM		C C C B B C C C C C C C	
PCUSS0027QSZZ	AA AE AG AL AM AQ AE AH AH AH AY AR AP AM AM AL		C C C C B B D C C	
PCUSU0203FCZZ 11- 5 PDUC-0003QSZ1 26- 30 PDUC-0004QSZZ 3- 6 PFiLZ0004QSZZ 26- 32 PFiLZ0011QSZ1 2- 18 PFTA-0019QSZZ 17- 15 PGiDH0095QSZZ 12- 39 PGiDH0114QSZZ 24- 8 PGiDM0065QSZ1 26- 26 PGiDM0067QSZ1 17- 9 PGiDM070QSZ1 17- 9 PGiDM071QSZZ 34- 4 PGIDM071QSZZ 15- 6	AE AG AL AM AQ AE AH AH AH AY AR AP AM AM AM AL		C C B B C C C C	
PDUC-0004QSZZ 3- 6 PFiLZ0004QSZZ 26- 32 PFiLZ00011QSZ1 2- 18 PFTA-0019QSZZ 17- 15 PGiDH0095QSZZ 12- 39 PGiDH0014QSZZ 24- 8 PGiDM0065QSZ1 26- 26 PGiDM0067QSZ1 17- 9 PGiDM0067QSZ1 15- 6	AL AM AQ AE AH AH AY AR AP AM AM AL		B B D C C	
PFiLZ0004QSZZ 26- 32 PFiLZ0011QSZ1 2- 18 PFTA-0019QSZZ 17- 15 PGiDH0095QSZZ 12- 39 PGiDH0114QSZZ 24- 8 PGiDM0065QSZ1 12- 39 PGiDM0067QSZ1 17- 9 PGiDM0067QSZ1 17- 9 PGiDM007QSZ1 15- 6	AM AQ AE AH AH AY AR AP AM AM AM AL		B B D C C	
PFiLZ0011QSZ1 2- 18 PFTA-0019QSZZ 17- 15 PGiDH0095QSZZ 12- 39 PGiDH0114QSZZ 24- 8 PGiDM0065QSZ1 26- 26 PGiDM0067QSZ1 17- 9 PGiDM0068QSZZ 34- 4 PGiDM0070QSZ1 15- 6 " 32- 6 PGiDM071QSZZ 15- 9 PGiDM0072QSZZ 28- 21 PGiDM0074QSZZ 34- 23	AQ AE AH AH AY AR AP AM AM		B D C C	
PGiDH0095QSZZ 12- 39 PGiDH0114QSZZ 24- 8 PGiDM0065QSZ1 26- 26 PGiDM0067QSZ1 17- 9 PGiDM0068QSZZ 34- 4 PGiDM0070QSZ1 15- 6 " 32- 6 PGiDM0071QSZZ 15- 9 " 32- 9 PGiDM0072QSZ2 28- 21 PGiDM0074QSZZ 34- 23	AH AH AY AR AP AM AM		0 0 0	
PGiDH0114QSZZ 24-8 PGiDM0065QSZ1 26-26 PGiDM0067QSZ1 17-9 PGiDM0068QSZZ 34-4 PGiDM0070QSZ1 15-6 " 32-6 PGiDM0071QSZZ 15-9 " 32-9 PGiDM0072QSZ2 28-21 PGiDM0074QSZZ 34-23	AH AY AR AP AM AM AL	N	C	
PGiDM0065QSZ1 26- 26 PGiDM0067QSZ1 17- 9 PGiDM0068QSZZ 34- 4 PGiDM0070QSZ1 15- 6 " 32- 6 PGiDM0071QSZZ 15- 9 " 32- 9 PGiDM0072QSZ2 28- 21 PGiDM0074QSZZ 34- 23	AY AR AP AM AM AL	N	C	
PGiDM0067QSZ1 17-9 PGiDM0068QSZZ 34-4 PGiDM0070QSZ1 15-6 " 32-6 PGiDM0071QSZZ 15-9 " 32-9 PGiDM0072QSZ2 28-21 PGiDM0074QSZZ 34-23	AR AP AM AM AL		С	
PGiDM0070QSZ1 15-6 " 32-6 PGiDM0071QSZZ 15-9 " 32-9 PGiDM0072QSZ2 28-21 PGiDM0074QSZZ 34-23	AM AM AL		С	
" 32- 6 PGiDM0071QSZZ 15- 9 " 32- 9 PGiDM0072QSZ2 28- 21 PGiDM0074QSZZ 34- 23	AM AL			
PGiDM0071QSZZ 15- 9 " 32- 9 PGiDM0072QSZ2 28- 21 PGiDM0074QSZZ 34- 23	AL		C	
" 32- 9 PGiDM0072QSZ2 28- 21 PGiDM0074QSZZ 34- 23			C	
PGiDM0074QSZZ 34-23	\rac{1}{2}		C	
	AU		С	
IPG i DM 0 0 7 5 Q S Z Z 19- 1	AK AF		C	
PG i DM 0 0 7 5 QSZZ 19- 1 PG i DM 0 0 7 6 QSZZ 19- 2	AF		C	
PGiDM0085QSZZ 21- 1	AP		Č	
PG i DM0 0 8 6 QS ZZ 21- 2	AQ		С	
PG i DM 0 1 0 5 QS ZZ 6-23 PG i DM 0 1 0 6 QS ZZ 7-45	AQ AS	N N	C	
PG i DM 0 1 0 0 Q 3 Z Z 7 - 4 3 PG i DM 0 1 0 7 Q S Z Z 7 - 1	AP	N	C	
PG i DM 0 1 0 8 QS Z Z 12- 35	AH	N	С	
PGiDM0109QSZZ 12- 37	AH	N	C	
PG i DM 0 1 1 2 QSZZ 30- 11 PG i DM 0 1 1 3 QSZZ 23- 35	AG AT	N N	C	
PG i DM0 1 1 5 QS Z Z 24- 18	AS	N	C	
PGLSP0003QSZZ 1- 11	BA		В	
PGLSP0004QSZZ 1- 19	AX		В	
PGSK-0008QSZZ 13- 39 PGSK-0011QSZZ 2- 42	AF AS		C	
PGSK-0012QSZZ 2- 43	AQ		C	
PGSK-0013QSZZ 2- 44	AP		С	
PGSK-0014QSZZ 2- 45 PGSK-0015QSZZ 2- 46	AM		С	
PGSK-0015QSZZ 2- 46 PGSK-0016QSZZ 2- 47	AL AP		C	
PGSK-0017QSZZ 29- 50	AH		Č	
PGSK-0018QSZZ 29- 45	AH		С	
PGSK-0021QSZZ 10- 47 PGSK-0022QSZZ 10- 48	AQ AP		C	
PGSK-0022Q32Z 10- 48	AH		C	
PGSK-0026QSZZ 10- 56	AQ	N	С	
PGUMM0005QSZZ 26- 2	AD		C	
PGUMS0002QSZZ 12- 18 PMiR-0009QSZZ 11- 7	AL AS		C B	
PMLT-0009Q322 11- 7	AC		С	
PMLT-0005YSZZ 21- 8	AB		С	
PMLT-0006YSZZ 21- 7 PMLT-0018QSZ1 22- 24	AB AC		0	
PMLT-0018QSZ1 22- 24 PMLT-0027QSZZ 26- 33	AC		C	
PMLT-0088QSZZ 2- 48	AE	N	C	
PMLT-0089QSZZ 10- 53	AC	N	С	
PMLT-0090QSZZ 28- 30 PMLT-0091QSZZ 10- 55	AE AD	N N	С	
PMLT-0091QSZZ 10- 55 PMLT-0092QSZZ 10- 52	AB	N N	C	
PMLT-0093QSZZ 1- 26	AB	N	C	
PMLT-0094QSZZ 13- 41	AC	N	С	
PPiPP0014QSZZ 20-23 PPiPP0015QSZZ 22-13	AC AG		C	
PP i PP 0 1 0 9 F C Z Z 20- 16	AG		C	
PRDAZ0002QSZZ 27- 36	AD		С	
PREFLO004QSZZ 11- 1	AP		D	
PRNGF0106FCZ2 22- 38 PRNGP0090FCZZ 5- 42	AC AA		C	
PSEL - 0 0 2 5 QS ZZ 21-21	AA		C	
PSEL-0035QSZZ 21- 3	AE		С	
PSEL - 0 0 3 7 Q S Z 1 21 - 13	AG		С	
PSEL-0070QSZZ 22- 11 PSEL-0071QSZZ 22- 10	AF AF		C	
PSEL-0071QSZZ 22-10 PSEL-0114QSZZ 21- 39	AC		C	
PSEL-0115QSZZ 21- 40	AD		С	
PSEL-0116QSZZ 21- 46	AB		С	

PARTS CODE	NO.	PRICE RANK	NEW MARK	PART RANK	
PSEL-0117QSZZ	21- 43	AB		С	
PSEL-0124QSZZ	21- 44	AB		С	
PSEL-0132QSZZ	21- 23	AG		С	
PSEN-0001QSZZ PSHEM0338QSZZ	21- 27 29- 54	AC AH		C	
PSHEM0336Q3ZZ	12- 38	AU		C	
PSHEP0035YSZZ	21- 19	AB		Č	
PSHEP0324QSZZ	21- 49	AC		С	
PSHEP3029FCZZ	7- 26	AA		С	
//	8- 19	AA		С	
PSHEZ0065QSZZ PSHEZ0069QSZZ	10- 7 5- 38	AB AE		C	
PSHEZ0077QSZ1	4- 17	AE		C	
PSHEZ0088QSZ1	1- 25	AD	N	Č	
PSHEZ0099QSZZ	20- 3	AC		С	
PSHEZ0108QSZZ	13- 31	AC		С	
PSHEZ0133QSZZ	17- 7	AD		С	
PSHEZ0207QSZZ PSHEZ0208QSZZ	1- 20 1- 23	AC AC		C	
PSHEZ0217QSZZ	13- 21	AC		C	
PSHEZ0218QSZZ	13- 20	AC		Č	
PSHEZ0219QSZZ	13- 32	AC		С	
PSHEZ0220QSZ1	1- 4	AK		С	
PSHEZ0221QSZZ	1- 18	AC		С	
PSHEZ0222QSZZ PSHEZ0241QSZZ	1- 21 20- 42	AC AB		C	
PSHEZ0244QSZ2	15- 15	AC		C	
PSHEZ0249QSZZ	35- 31	AB		Č	
PSHEZ0250QSZZ	35- 29	AB		С	
PSHEZ0254QSZZ	13- 34	AC		С	
PSHEZ0266QSZ1	24- 4	AK		С	
PSHEZ0269QSZZ PSHEZ0273QSZZ	29- 20 13- 38	AC AB		C	
PSHEZ0274QSZZ	15- 4	AC		C	
//	32- 4	AC		Č	
PSHEZ0283QSZZ	3- 20	AB		С	
PSHEZ0285QSZZ	5- 20	AB		С	
PSHEZ0286QSZZ	3- 17	AE		С	
PSHEZ0301QSZZ	17- 33 34- 25	AC AC		C	
PSHEZ0302QSZZ	17- 34	AC		C	
//	34- 26	AC		C	
PSHEZ0307QSZ1	18- 34	AB		С	
PSHEZ0314QSZ1	17- 43	AF		С	
PSHEZ0316QSZZ PSHEZ0322QSZZ	27- 35 17- 36	AD AD		C	
PSHEZ0325QSZZ	10- 41	AB		C	
//	31- 22	AB		Č	
PSHEZ0329QSZZ	22- 34	AC		С	
PSHEZ0330QSZZ	18- 36	AC		С	
PSHEZ0333QSZZ	10- 40	AC		С	
PSHEZ0341QSZZ PSHEZ0378QSZZ	27- 37 17- 17	AA AG		C	
# JILZU376Q3ZZ	17- 17	AG		C	
//	34- 14	AG		Č	
PSHEZ0391QSZZ	16- 36	AC		C	
PSHEZ0392QSZZ	16- 37	AB		С	
PSHEZ0393QSZZ PSHEZ0394QSZZ	16- 38 14- 65	AA AB		C	
PSHEZ0394QSZZ PSHEZ0413QSZZ	4- 16	AB	N	C	
PSHEZ0414QSZZ	8- 9	AB	N	C	
PSHEZ0415QSZZ	7- 15	AE	N	C	
PSHEZ0420QSZZ	13- 43	AC		С	
PSHEZ0423QSZZ	7- 4	AP	N	С	
PSHEZ0424QSZZ PSHEZ0425QSZZ	9- 12 9- 13	AL AE	N N	C	
PSHEZ0426QSZZ	13- 45	AB	IN	C	
PSHEZ0436QSZZ	5- 37	AD	N	C	
PSHEZ0448QSZZ	13- 22	AA	N	C	
PSHEZ0451QSZZ	7- 7	AC	N	С	
PSHEZ0452QSZZ	7- 2	AF	N	C	
PSHEZ0454QSZZ	7- 46 7- 47	AB	N	O	
PSHEZ0455QSZZ PSHEZ1394FCZZ	7- 47 37- 2	AD AC	N	C D	
PSHT-0004QSZ1	22- 12	AC		C	
PSPAP0023QSZZ	21- 34	AC		С	
PSPAP0036QSZZ	21- 45	AC		С	
PSPAZ0696FCZZ	22- 15	AC		С	
PSPŌ-0003QSZZ	5- 22	AC		С	
PSPŌ-0004QSZZ PSPŌ-0020QSZZ	5- 7 5- 19	AB AB		C	
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PSPO-00230SZZ				WANK		
PSPO-00230SZZ						
PSPO-00280SZZ						
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PTME-00200SZ1						
PTME					_	
PTME-00290SZZ					_	
PTME-0178FCZZ						
PTME-0178FCZZ		6- 27		N	C	
PTME-0179FCZZ	PTME-0030QSZZ	7- 20	AC	N	С	
PTME-0271FCZZ	PTME-0178FCZZ	20- 30	AC		С	
## PTME - 028 2 FCZZ 23-36	PTME-0179FCZZ	20- 34	AC		С	
PTME-0282FCZZ 23-36 AH C C PTPE-0018QSZ 8-3 AC C C PTPE-0018QSZZ 15-7 AD C C PTPE-0021QSZZ 15-7 AD C C PTPE-0026QSZZ 22-35 AA C C PTPE-0027QSZZ 29-51 AP C C PTPE-0028QSZZ 29-52 AG C PTPE-0028QSZZ 29-52 AG C PTPE-0039QSZZ 29-53 AG C PTPE-0039QSZZ 29-53 AG C PTPE-0039QSZZ 29-53 AG C PTPE-0039QSZZ 12-41 AK C C PTPE-0039QSZZ 12-41 AK C C PTPE-0034QSZZ 29-49 AH C C PTPE-0036QSZZ 12-40 AF C PTPE-0051QSZZ 13-44 AC C C PTPE-0051QSZZ 12-1 AQ C C [Q] C Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	PTME-0271FCZZ	19- 5	AD		С	
PTPE-0018QSZZ	//	4- 28	AD		С	
PTPE-0021QSZZ	PTME-0282FCZZ	23- 36	AH		С	
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PTPE-0026QSZZ 22-35 AA C C PTPE-0027QSZZ 29-51 AP C PTPE-0028QSZZ 29-52 AG C PTPE-0028QSZZ 29-53 AG C PTPE-0039QSZZ 29-53 AG C PTPE-0039QSZZ 29-53 AG C PTPE-0039QSZZ 29-48 AF C PTPE-0034QSZZ 29-48 AF C PTPE-0035QSZZ 12-41 AK C C PTPE-0035QSZZ 12-41 AK C C PTPE-0035QSZZ 12-40 AF C PTPE-0036QSZZ 12-40 AF C PTPE-0051QSZZ 12-10 AQ C PWIR-0006QSZZ 12-11 AQ C C PWIR-0006QSZZ 12-12-12 AF B B C C PWIR-0006QSZZ 12-12 AG C BF C PWIR-0006QSZZ 12-12 AF B B C C PWIR-0006QSZZ 13-26 AF C C PWIR-0006QSZZ 13-26 AZ N B PWIR-0006QSZZ 1						
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PTPE-00340SZZ						
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PTPE-00360SZZ						
PTPE-00510SZZ						
PTPE-0052QSZZ						
PWIR-0005QSZ1				NI	_	
PWIR-0006QSZZ				IN	_	
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QACCDR614QCPZ 30- 19 AS B QACCER624QCPZ 30- 19 AW B QACCJR614QCPZ 30- 19 AW B QACCLR421QCPZ 30- 19 AW N B QCCLR421QCPZ 30- 19 AW N B QSW-B0017QSZZ 14- 66 AF B " 16- 22 AF B " 19- 12 AF B " 28- 15 AF B " 33- 14 AF B QSW-G9292QCZZ 30- 20 AN B [R] RCŌRF0002QSZZ 13- 26 AE C " 29- 21 AE C RCŌRF0011QSZZ 29- 47 AG C RCŌRF0011QSZZ 25- 26 AC C RCŌRF0014QSZZ 14- 68 AG C RCŌRF0014QSZZ 15- 8 AL C RCŌRF0011QSZ 29- 47 AG C RCŌRF0014QSZZ 30- 29 AK C RCŌRF0014QSZZ 35- 16 AP C RCŌRF0011QSI 30- 28 BY N E RDENC0011QSI 30- 28 BY N E RDENC0011QSZ 21- 28 AY B RDENC001QSZ 21- 28 AY B RLMPU0026QSZ 23- 26 AZ N B RLMPU0027QSZ 23- 26 AZ N B RLMPU0027QSZ 23- 26 AZ N B RLMPU0029QSZ 24- 24 AV B RMŌTPO024QSZ 24- 24 AV B RMŌTPO024QSZ 24- 24 AV B RMŌTPO024QSZ 24- 25 AU		30- 19	Δ7		B	
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RMŌTP0027QSZZ 12- 15 BG B RMŌTP0029QSNA 27- 2 AV B RMŌTS0043QSZZ 8- 1 BG N B RMŌTS0045QSZZ 10- 44 AR N B RPLU-0011QSZ1 5- 5 AQ B RPLU-0015QSZ1 8- 6 AR B RPLU-0024QSZZ 14- 50 AM B RPLU-0026QSZ1 16- 8 AR B RPLU-0027QSZZ 27- 28 AU B RPLU-0028QSZZ 20- 32 AM B RSNSZ0001QSZZ 13- 11 BA B						
RMŌTS0043QSZZ 8- 1 BG N B RMŌTS0045QSZZ 10- 44 AR N B RPLU-0011QSZ1 5- 5 5- AQ B RPLU-0015QSZ1 8- 6 AR B RPLU-0024QSZZ 14- 50 AM B RPLU-0026QSZ1 16- 8 AR B RPLU-0027QSZZ 27- 28 AU B RPLU-0027QSZZ 27- 28 AU B RPLU-0028QSZZ 20- 32 AM B RSNSZ0001QSZZ 13- 11 BA B					В	
RMOTS0045QSZZ 10- 44 AR N B RPLU-0011QSZ1 5- 5 AQ B RPLU-0015QSZ1 8- 6 AR B RPLU-0024QSZZ 14- 50 AM B RPLU-0026QSZ1 16- 8 AR B "" 33- 9 AR B RPLU-0027QSZZ 27- 28 AU B RPLU-0027QSZZ 27- 28 AU B RPLU-0028QSZZ 20- 32 AM B RSNSZ0001QSZZ 13- 11 BA B					В	
RPLU-0011QSZ1 5- 5 AQ B RPLU-0015QSZ1 8- 6 AR B RPLU-0024QSZZ 14- 50 AM B RPLU-0026QSZ1 16- 8 AR B " 33- 9 AR B RPLU-0027QSZZ 27- 28 AU B RPLU-0028QSZZ 20- 32 AM B RSNSZ0001QSZZ 13- 11 BA B	RMŌTS0043QSZZ	8- 1	BG	N	В	
RPLU-0015QSZ1 8- 6 AR B RPLU-0024QSZZ 14- 50 AM B RPLU-0026QSZ1 16- 8 AR B " 33- 9 AR B RPLU-0027QSZZ 27- 28 AU B RPLU-0028QSZZ 20- 32 AM B RSNSZ0001QSZZ 13- 11 BA B	RMŌTS0045QSZZ	10- 44	AR	N	В	
RPLU-0024QSZZ 14- 50 AM B RPLU-0026QSZ1 16- 8 AR B " 33- 9 AR B RPLU-0027QSZZ 27- 28 AU B RPLU-0028QSZZ 20- 32 AM B RSNSZ0001QSZZ 13- 11 BA B	RPLU-0011QSZ1	5- 5	AQ			
RPLU-0026QSZ1 16-8 AR B " 33-9 AR B RPLU-0027QSZZ 27-28 AU B RPLU-0028QSZZ 20-32 AM B RSNSZ0001QSZZ 13-11 BA B		8- 6			В	
" 33- 9 AR B RPLU-0027QSZZ 27- 28 AU B RPLU-0028QSZZ 20- 32 AM B RSNSZ0001QSZZ 13- 11 BA B		_				
RPLU-0027QSZZ 27- 28 AU B RPLU-0028QSZZ 20- 32 AM B RSNSZ0001QSZZ 13- 11 BA B	RPLU-0015QSZ1 RPLU-0024QSZZ	14- 50			R	
RPLU-0028QSZZ 20- 32 AM B RSNSZ0001QSZZ 13- 11 BA B	RPLU-0015QSZ1 RPLU-0024QSZZ		AR			
RSNSZ0001QSZZ 13- 11 BA B	RPLU-0015QSZ1 RPLU-0024QSZZ RPLU-0026QSZ1	16- 8				
	RPLU-0015QSZ1 RPLU-0024QSZZ RPLU-0026QSZ1 " RPLU-0027QSZZ	16- 8 33- 9 27- 28	AR AU		B B	
HIHM-0004QSZZ 23- 8 AN N B	RPLU-0015QSZ1 RPLU-0024QSZZ RPLU-0026QSZ1 " RPLU-0027QSZZ RPLU-0028QSZZ	16- 8 33- 9 27- 28 20- 32	AR AU AM		B B B	
	RPLU-0015QSZ1 RPLU-0024QSZZ RPLU-0026QSZ1 " RPLU-0027QSZZ RPLU-0028QSZZ RSNSZ0001QSZZ	16- 8 33- 9 27- 28 20- 32 13- 11	AR AU AM BA		B B B	

PARTS CODE	NO.	PRICE RANK	NEW MARK	PART RANK	
[S] SPAKA0134RSZZ	37- 14	AL		D	
SPAKA0480QSZZ	37- 14	AW	N	D	
SPAKA0481QSZZ	37- 4	AW	N	D	
SPAKA0482QSZZ	37- 3	AW	N	D	
SPAKA0483QSZZ	37- 4	AW	N	D	
SPAKA0484QSZZ	37- 7	BE	N	D	
SPAKA0485QSZZ	37- 6	AL	N	D	
SSAKA2343QCZZ	37- 13	AA		D	
SSAKA3001CCZZ	37- 12	AA		D	
SSAKZ0019FCZZ	37- 5	AM		D	
[T]	37- 9	AC		D	
TCADZ0010QSZZ TCADZ0015QSZZ	37- 9	AD	N	D	
TCADZ1275FCZZ	37- 11	AB	IN	D	
TCAUA0770FCZZ	2- 39	AB		D	
TCAUH0007QSZZ	14- 58	AD		C	
TCAUH0016QSZZ	21- 41	AC		С	
TCAUH0933FCZZ	11- 15	AB		С	
TiNSE1001QSZZ	37- 2	AX	N	D	
TiNSE1003QSZZ	37- 2	AW	N	D	
TiNSE1005QSZZ	37- 2	AW	N	D	
TiNSE1027QSZZ	37- 2	AL	N	D	
TiNSE1029QSZZ	37- 2	AL	N	D	
TiNSE1031QSZZ	37- 2	AL	N	D	
TiNSE1053QSZZ TiNSE1091QSZZ	37- 2 37- 2	AL AQ	N N	D D	
TiNSE1091QSZZ	37- 2	AQ	N	D	
TiNSF1006Q3ZZ	37- 2	AP	N	D	
TiNSF1055QSZZ	37- 2	AN	N	D	
TiNSF1093QSZZ	37- 2	AU	N	D	
TiNSG1008QSZZ	37- 2	AZ	N	D	
TiNSG1034QSZZ	37- 2	AP	N	D	
TiNSG1056QSZZ	37- 2	AN	N	D	
TiNSG1095QSZZ	37- 2	AU	N	D	
TLABG0401QSZZ	2- 27	AR		С	
TLABH0289QSZZ	24- 19	AA		С	
TLABH0461QSZZ	13- 18	AG		С	
TLABH0484QSZZ	37- 2	AE	N	D	
TLABZ0058QSZZ TLABZ0366QSZZ	2- 40 32- 25	AD AD		D C	
TLABZ4366Q3ZZ	2- 27	AC		C	
TLABZ4312FCZZ	2- 41	AE		D	
[U]		,,,_			
UCLEZ0011QSZZ	22- 32	AT		D	
UKŌGZ0002FCZZ	37- 2	AD		D	
UYŌK-0011FCZZ	37- 2	AA		D	
[V]					
VHPGP1A71L3-1	27- 9	AG		В	
VHPGP1S44S/-1	28- 12	AK		В	
VHPGP1S73P+-1	13- 14	AF		В	
<i>"</i>	16- 30 17- 19	AF		В	
<i>"</i>	17- 19	AF AF		B B	
"	23- 14	AF		В	
<i>"</i>	28- 13	AF		В	
//	3- 9	AF		В	
//	4- 23	AF		В	
"	5- 15	AF		В	
//	6- 43	AF		В	
//	7- 32	AF		В	
VHPGP2D03//-1	13- 3	BA		В	
VHPGP2D032/-1	13- 11	BA		В	
VHPGP2D07//-1	13- 3 9- 4	BA CB		B E	
VVLLM065HB1-1	9- 4	CB			
[X] XBBSD26P03000	27- 32	AA	 	С	
XBBSD30P05000	14- 27	AA		C	
//	5- 12	AA		C	
//	8- 32	AA		C	
XBBSD30P08000	29- 2	AA		Č	
XBBSD30P10000	20- 35	AA		С	
XBBSD40P08000	21- 4	AA		С	
XBBSF30P08000	13- 6	AA		С	
//	29- 5	AA		0	
XBPBZ30P03000	21- 24	AB		С	
XBPSC30P06ES0	14- 42	AA		С	
XBPSD30P05K00 XBPSD30P06KS0	12- 14 21- 17	AA AA		C	
XBPSD30P06KS0	21- 17	AA		C	
XBPSD30P08KS0	10- 27	AA		C	
751 05001 00K30	10 21	$\neg \neg$	l .	J	

		PRICE	NEW	PART	
PARTS CODE	NO.	RANK	MARK	RANK	
XBPSD30P08KS0	14- 41 17- 29	AA AA		C	
"	29- 19	AA		C	
//	30- 42	AA		С	
<i>"</i>	31- 14 34- 20	AA AA		C	
XBPSD30P08X00	13- 12	AA		C	
XBPSD30P14KS0	23- 5	AA		С	
XBPSD30P30KS0	24- 10 30- 39	AA		C	
XBPSD40P06K00	12- 9	AA		C	
XBPSD40P08K00	25- 1	AA		С	
XBPSD40P08KS0	15- 24 32- 24	AA AA		C	
XBPSD40P16KS0	12- 19	AA		C	
XBPSN30P08KS0	23- 4	AA		С	
//	24- 14	AA		С	
XBPSN40P06K00 XEBSD20P06000	30- 1 26- 34	AA AA		C	
XEBSD26P05000	21- 48	AA		C	
XEBSD30P06000	14- 54	AA		С	
// XEBSD30P08000	23- 15 20- 29	AA AA		C	
//	21- 12	AA		C	
//	22- 1	AA		С	
<i>"</i>	26- 17 27- 4	AA AA		C	
"	34- 9	AA		C	
"	35- 3	AA		С	
XEBSD30P10000	14- 57	AA		O	
<i>"</i>	14- 6 16- 1	AA AA		C	
//	17- 16	AA		C	
"	18- 27	AA		С	
<i>"</i>	20- 41	AA AA		C	
<i>"</i>	3- 4	AA		C	
//	34- 11	AA		С	
XEBSD40P10000	10- 5 14- 53	AA AA		С	
"	14- 53 17- 31	AA		C	
XEBSD40P30000	30- 10	AA		C	
<i>"</i>	30- 12	AA		С	
<i>"</i>	30- 33 35- 14	AA AA		C	
XEBSE30P06000	19- 22	AA		C	
XEBSE30P08000	18- 21	AA		С	
<i>"</i>	19- 3 4- 18	AA AA		C	
//	5- 33	AA		C	
"	6- 13	AA		С	
"	7- 28 8- 4	AA AA		C	
<i>"</i>	9- 10	AA		C	
//	9- 16	AA		С	
XEBSE30P10000	20- 2 22- 33	AA AA		C	
XEBSE30P12000	2- 33	AA		C	
//	3- 7	AA		С	
XEBSE40P10000	15- 22	AA		C	
<i>"</i>	17- 8 2- 7	AA AA		C	
//	29- 18	AA		C	
"	32- 22	AA		С	
// XEBSE40P12000	9- 2 10- 51	AA AA		C	
//	17- 1	AA		С	
"	30- 34	AA		С	
<i>"</i>	31- 2 34- 24	AA AA		C	
"	35- 15	AA		C	
//	4- 2	AA		С	
XEBSE40P14000 XEPSD23P12000	7- 33 14- 64	AA AA		C	
XEPSD23P12000 XEPSD30P06000	14- 64 11- 12	AA		C	
XEPSD30P06X00	19- 8	AA		Č	
// VEDCD20D00V00	20- 40	AA		С	
XEPSD30P08X00	34- 3 4- 29	AA AA		C	
"	8- 14	AA		C	
"	0 17	/ // /		_	

DADTO CODE	NO	PRICE	NEW	PART	
PARTS CODE	NO.	RANK	MARK	RANK	
XEPSD30P14X00	3- 1	AA		С	
XEPSD40P06000	11- 16	AA		С	
XHBS230P08000	22- 29	AA		С	
XHBSD30P06000 XHBSD30P08000	13- 10 27- 1	AA AA		C	
//	27- 31	AA		C	
"	28- 27	AA		C	
XHBSD30P10000	18- 24	AA		Č	
//	4- 8	AA		Č	
XHBSD30P14000	18- 26	AA		С	
XHBSD30P16000	18- 25	AA		С	
XHBSD40P10000	28- 1	AA		С	
XHBSE30P06000	10- 28	AA		С	
//	30- 4	AA		С	
XHBSE30P08000	10- 2	AA		С	
"	12- 36	AA		С	
<i>"</i>	2- 3	AA		С	
//	29- 14 29- 17	AA AA		C	
"	30- 9	AA		C	
"	4- 3	AA		C	
"	5- 2	AA		C	
"	7- 11	AA		C	
//	8- 22	AA		C	
XHBSE40P10000	10- 15	AA		Č	
//	2- 35	AA		Č	
//	26- 29	AA		С	
//	28- 28	AA		С	
XNESD30-24000	13- 2	AA		С	
XPSSJ20-07000	18- 13	AA		С	
//	20- 6	AA		С	
XPSSJ30-12000	12- 26	AB		С	
XPSSP20-07000	6- 11	AA		С	
XPSSP20-09000	7- 24	AA AA		C	
XRESP20-04000	8- 16 5- 17	AA		C	
XRESP30-06000	18- 11	AA		C	
//	21- 30	AA		C	
"	27- 11	AA		Č	
XRESP40-05000	12- 5	AA		Č	
XRESP40-06000	10- 18	AA		C	
"	16- 25	AA		С	
//	18- 3	AA		С	
"	20- 12	AA		C	
<i>"</i>	26- 22	AA		С	
//	27- 12	AA		С	
"	28- 24	AA		С	
<i>"</i>	35- 8	AA		С	
XRESP50-06000	8- 8	AA		С	
//	12- 21 14- 18	AA AA		C	
"	16- 27	AA		C	
"	26- 11	AA	-	C	
"	28- 26	AA		C	
//	35- 9	AA		Č	
"	5- 27	AA		Č	
//	6- 9	AA		С	
"	7- 23	AA		С	
//	8- 20	AA		С	
XRESP60-08000	14- 44	AA		С	
XRESP70-08000	12- 32	AA		С	
"	15- 16	AA		С	
<i>"</i>	25- 8 32- 16	AA		С	
XUBUZ30P08000	21- 29	AA AA		C	
XWHSD30-05070	27- 33	AA		C	
XWHSD40-08100	13- 40	AA		C	
//	30- 35	AA		C	
XWSSD40-10000	30- 36	AA		Č	
XWVSD40-05000	4- 12	AA		C	
//	7- 35	AA		С	
<u> </u>		-			
			-	-	
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CAUTION FOR BATTERY REPLACEMENT -

(Danish) ADVARSEL!

Lithiumbatteri – Eksplosionsfare ved fejlagtig håndtering.
Udskiftning må kun ske med batteri
af samme fabrikat og type.

Levér det brugte batteri tilbage til leverandoren.

(English) Caution!

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the manufacturer.

Dispose of used batteries according to manufacturer's instructions.

(Finnish) VAROITUS

Paristo voi räjähtää, jos se on virheellisesti asennettu. Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

(French) ATTENTION

Il y a danger d'explosion s' il y a remplacement incorrect de la batterie. Remplacer uniquement avec une batterie du même type ou d'un type équivalent recommandé par le constructeur.

Mettre au rebut les batteries usagées conformément aux instructions du fabricant.

(Swedish) VARNING

Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en ekvivalent
typ som rekommenderas av apparattillverkaren.
Kassera använt batteri enligt fabrikantens
instruktion.

(German) Achtung

Explosionsgefahr bei Verwendung inkorrekter Batterien.
Als Ersatzbatterien dürfen nur Batterien vom gleichen Typ oder vom Hersteller empfohlene Batterien verwendet werden.
Entsorgung der gebrauchten Batterien nur nach den vom Hersteller angegebenen Anweisungen.

- CAUTION FOR BATTERY DISPOSAL -

(For USA, CANADA)

"BATTERY DISPOSAL"

THIS PRODUCT CONTAINS A LITHIUM PRIMARY
(MANGANESS DIOXIDE) MEMORY BACK-UP BATTERY
THAT MUST BE DISPOSED OF PROPERLY. REMOVE THE
BATTERY FROM THE PRODUCT AND CONTACT YOUR
LOCAL ENVIRONMENTAL AGENCIES FOR INFORMATION
ON RECYCLING AND DISPOSAL OPTIONS.

"TRAITEMENT DES PILES USAGÉES"
CE PRODUIT CONTIENT UNE PILE DE SAUVEGARDE DE
MÉMOIRE LITHIUM PRIMAIRE (DIOXYDE DE MANGANÈSE)
QUI DOIT ÊTRE TRAITÉE CORRECTEMENT. ENLEVEZ LA
PILE DU PRODUIT ET PRENEZ CONTACT AVEC VOTRE
AGENCE ENVIRONNEMENTALE LOCALE POUR DES
INFORMATIONS SUR LES MÉTHODES DE RECYCLAGE ET
DE TRAITEMENT.



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